Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 . 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 841 <211> 255 <212> PRT <213> Homo sapiens <400> 841 Ala Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 1 5 10 15 Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ala Ser Met Thr Thr Asn 20 25 Lys Phe Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu 35 40 45 Trp. Ile Gly Asn Ile Asn Tyr Ser Lys Ser Thr Asn Tyr Asn Pro Ser Leu Lys Ser Arg Ile Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Leu

Ser Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 95

Cys Ala Arg His Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg 100  $$105\$ 

70 75 80

Gly	His	Tyr 115	Phe	Asp	Tyr	Trp	Gly 120	Gln	Gly	Thr	Met	Val 125	Thr	Val	Sea
Ser	Gly 130	Gly	Gly	Gly		Gly 135	Gly	Gly	Gly	Ser	Gly 140	Gly	Gly	Gly	Sea
Gln 145	Ser	Val	Leu	Thr	Gln 150	Pro	Ala	Ser	Val	Ser 155		Ser	Pro	Gly	Glr 160
Ser	Ile	Thr	Ile	Ser 165	Сув	Thr	Gly	Thr	Ser 170	ser	Asp	Val	Gly	Gly 175	
Asn	Tyr	Val	Ser 180	Trp	Tyr	Gln	Gln	His 185		Gly	Lys	Ala	Pro 190		Let
Met	Ile	Tyr 195	Glu	Gly	Ser		Arg 200	Pro	Ser	Gly	Val	Ser 205	Asn	Arg	Phe
Ser		Ser	Lys	Ser		Asn 215	Thr	Ala	Ser	Leu	Thr 220	Ile	Ser	Gly	Let
Gln 225		Glu	Asp		Ala 230		Tyr	Tyr	Cys	Ser 235		Tyr	Thr	Thr	Arg 240
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Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyı
Gly	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Va.
Ser	Val 50	Thr	Tyr	Ser	Gly	Gly 55	Asn	Thr	Asn	Tyr	Ala 60	Asp	Ser	Val	Arg
Glv	Ara	Phe	Thr	Ile	Ser	Ara	Asp	Asn	Ser	Lvs	Asn	Thr	Leu	Tvr	Let

. 80 65 70 . 75 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 105 110 Arg Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 150 145. 155 160 Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe 165 170 175 Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190 Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205 Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 220 Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe 225 230 235 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 843 <211> 256 <212> PRT <213> Homo sapiens <400> 843 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 5 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 20 - 25

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 5.0 55 Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 70 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 Tyr Cys Thr Thr Phe Asn Pro Thr Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 Ile Gly Gly Tyr Phe Gln His Trp Gly Gln Gly Thr Met Val Thr Val 115 120 Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg 200 Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 215 Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr 230 235 Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly 245 250

<210> 844

<211> 254 <212> PRT

<213> Homo sapiens

<400> 844

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys Pro Ser Gln 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Val Ser Ile Ser Ser Asp 20 25 30

Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Ala Gly Lys Gly Pro Glu
35 40 45

Trp Ile Gly Arg Ile Tyr Pro Thr Gly Ser Thr Asn Tyr Asn Pro Ser

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe 65 70 75 80

Ser Leu Gln Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 '

Cys Ala Arg Gly Arg Trp Asp Tyr Asp Leu Leu Thr Gly Glu His Leu 100 105 110

Gly Tyr Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 \$140\$

Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 145 150 155 160

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Thr Leu Arg Asn Tyr 165 170 175

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val

Ile His Ser Arg Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 195 200 205

Gly Ser Ser Ser Gly Thr Thr Ala Ser Leu Thr Ile Thr Gly Ser Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 225 230 235 240

Asn Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 845 <211> 251

<212> PRT <213> Homo sapiens

<400> 845

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$ \$40\$ \$45\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $50 \,$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Ala Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 . 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 846 <211> 245 <212> PRT <213> Homo sapiens <400> 846 Gly Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Arg Thr Ser Gly Tyr Thr Phe Thr Ser Asn 20 Ser Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu 50 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Arg Gly
100 105 110

Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val 130 Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser 155 Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro 165 170 Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser 180 185 Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser 200 Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys 210 215 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys 225 230 235 Leu Thr Val Leu Gly 245 <210> 847 <211> 251 <212> PRT <213> Homo sapiens Gln Val Gln Leu Gln Gln Ser Glv Ser Glu Leu Lvs Lvs Pro Glv Ala Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Ser Leu Thr Lys Met Ser Met His Trp Val Arg Gln Ser Pro Gly Glu Gly Leu Glu Trp Val Gly Gly Ile Asp Pro Glu Thr Arg Gln Pro Val Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180 \hspace{0.25cm} 185 \hspace{0.25cm} 185 \hspace{0.25cm} 190 \hspace{0.25cm}$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 848

<211> 248

<212> PRT <213> Homo sapiens

<400> 848

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr His Tyr

Ala Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Arg Pro Glu Trp Met 35 40 45

Gly	Thr 50	Ile	Asn	Thr	Gly	Asn 55	Gly	Asn	Thr	Lys	Tyr 60	Ser	Gln	Asn	Phe	
Gln 65	Gly	Arg	Leu	Thr	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Ser	Thr	Val	Asn 80	
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys	
Ala	Gly	Gly	Tyr 100	His	Asp	Pro	Leu	Thr 105	Ser	Tyr	Asn	Tyr	Asn 110	Trp	Phe	
Asp	Pro	Trp 115	Gly	Gln	Gly	Thr	Met 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly	
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Ser	Glu	Leu	Thr	
Gln 145	Asp	Pro	Ala	Val	Ser 150	Val	Ala	Leu	Gly	Gln 155	Thr	Val	Arg	Ile	Thr 160	
Сув	Gln	Gly	Asp	Ser 165	Leu	Arg	Ser	Tyr	Tyr 170	Thr	Asn	Trp	Phe	Gln 175	Gln	
Lys	Pro	Gly	Gln 180	Ala	Pro	Leu	Leu	Val 185	Val	Tyr	Ala	Lys	Asn 190	Lys	Arg	
Pro	Ser	Gly 195	Ile	Pro	Asp	Arg	Phe 200	Ser	Gly	Ser	Ser	Ser 205	Gly	Asn	Thr	
Ala	Ser 210	Leu	Thr	Ile	Thr	Gly 215	Ala	Gln	Ala	Glu	Asp 220	Glu	Ala	Asp	Tyr	
Tyr 225	Cys	His	Ser	Arg	Asp 230	Ser	Ser	Gly	Asn	His 235	Val	Leu	Phe	Gly	Gly 240	
Gly	Thr	Lys	Leu	Thr 245	Val	Leu	Gly									
	0 > 8															
	1> 2! 2> PI										,					
<21	4 > P)	K.I.														

<400> 849 Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala 1 5 1.0 Ser Val Ile Val Ser Cys Lys Val Ser Gly Tyr Ser Leu Thr Lys Met 25 20 Ser Met His Trp Val Arg Gln Ser Pro Gly Glu Gly Leu Glu Trp Val 35 Gly Gly Ile Asp Pro Glu Thr Arg Gln Pro Val Tyr Ala Gln Lys Phe 50 . 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 . 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

1008

240

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 850

<211> 250 <212> PRT

<213> Homo sapiens

<400> 850

Gly Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Thr Ala Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile 35  $$40\$  .  $$45\$ 

Gly Trp Ile Ser Ala His Asn Gly Gln Thr Lys Tyr Ala Glu Lys Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr  $_{65}$   $^{70}$   $^{70}$   $^{75}$   $_{\cdot}$ 

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Val Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn 100 \$105\$

Tyr Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 .

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 220

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 851 <211> 250 <212> PRT

<213> Homo sapiens

<400> 851

Gly Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Ile Val Ser Cys Thr Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile . 35  $$40\$ 

Gly Trp Ile Ser Ala His Asn Gly Gln Thr Lys Tyr Ala Glu Lys Phe 50  $\,$   $\,$  60  $\,$ 

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90. \$95\$

Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn 100 \$105\$

Tyr Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe 165 170 Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 215 210 220 Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 230 235 Glv Glv Glv Thr Lvs Leu Thr Val Leu Glv 245 <210> 852 <211> 251 <212> PRT <213> Homo sapiens <400> 852 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Asn Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met . 35 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

100 . 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 . 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180 \,$   $185 \,$   $190 \,$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210  $$\rm 220$$ 

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Ile Leu Gly 245 250

<210> 853

<211> 251

<212> PRT <213> Homo sapiens

<400> 853

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $50 \,$ 

Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Thr	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Lys	Gly	Thr	Met 120	Val	Thr	Val	ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	11e 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
G1u 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	G1y	Gly	Gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					
<211 <212	)> 85 L> 25 PP B> Ho	53 RT	apie	ens											
	)> 85 Val		Gln	Ser 5	Gly	Ala	Asp	Val	Lys 10	Lys	Pro	Gly	Gly	Ser 15	Leu

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 2.0 25 Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110 Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 855 · <211> 251 <212> PRT . <213> Homo sapiens <400> 855 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Met Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Thr Tyr 2.5 20 Ala Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Arg Ile Asn Ala Gly Asn Gly Tyr Thr Lys Tyr Ser Gln Lys Phe 50 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 75 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Leu 100 105 Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 856 <211> 251 <212> PRT <213> Homo sapiens Glu Val Gln Leu Val Gln Ser Gly Gly Glu Val Lys Arg Pro Gly Ala 5 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr 20 25 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45 Gly Trp Ile Ser Ala Tyr Asn Gly Lys Thr Ser Phe Ala Glu Lys Phe Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Thr Thr Val Asp Met Glu Leu Arg Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Arg Thr Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Met Gly Tyr Phe 100 105 110 Asp Pro Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser 130 135 140 Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val

1016

155 160

150

Lvs Ile Thr Cvs Gln Glv Asp Ser Leu Arg Ser Phe Tyr Ala Ala Trp 165 170 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Ile Leu Val Ile Ser Gly Lys 180 185 Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Thr Ser Gly Asn His Tyr Val 235 Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 857 <211> 255 <212> PRT <213> Homo sapiens <400> 857 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Phe Cys Lys Ala Phe Gly Tyr Thr Phe Thr Ser Tyr 20 25 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe 55 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Val Val Tyr Tyr Cys 90 Ala Arg Gly Gly Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe Gly Leu

100 105 110

Gly Val Tyr Asp Tyr Tro Gly Gln Gly Thr Met Val Thr Val Ser Ser

dry var ryr Asp ryr rrp dry dri dry rin Met var rin ver ber ber

115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala

Gln Thr Val Leu Thr Gln Thr Pro Ser Val Ser Ala Ala Pro Gly Gln
145 150 155 160

Lys Val Thr Ile Ser Cys Ser Gly Ser Ile Ser Asn Ile Gly Asn Lys \$165\$

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Asp Asn Asp Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln 210  $\,$  215  $\,$  220  $\,$ 

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Ser Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 858

<211> 253

<212> PRT

<213> Homo sapiens

<400> 858

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly Gly 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Gly Ser Tyr

Ala Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Thr Ser Thr Gly Arg Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Ala Ala Val Tyr Tyr Cys 85 Ala Arg Gly Gly Asp Tyr Asp Ile Leu Thr Gly Leu Tyr Tyr Tyr Gly 100 105 Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr Val 130 135 Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr 150 155 Ile Ser Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val Lys 165 170 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly 180 Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser 230 235 Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250 <210> 859 <211> 250 <212> PRT <213> Homo sapiens <400> 859 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  $_{\rm 85}$   $_{\rm 90}$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  $130 \,$   $135 \,$   $140 \,$  .

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp 180 185 190

Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Gly Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Pro Ser Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Val Glu Ile Lys Arg \$245\$

<210> 860 <211> 253

<212> PRT

<213> Homo sapiens

<400> 860

Gln Val Gln Leu Val Gln Ser Arg Ala Glu Val Lys Arg Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Arg Phe Gly Ser Tyr \$20\$

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Trp Ile Ser Thr Arg Tyr Gly Asp Thr Lys Ser Ala Gln Lys Val

Glu Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn 100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly \$115\$ . \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val 145 150 150 155

Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val \$165\$ \$170\$

Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr  $^{\circ}$  180  $^{\circ}$  185 190

Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 861 <211> 248

<212> PRT <213> Homo sapiens

<400> 861

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His  $20 \\ 25 \\ 30$ 

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$ 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 .  $\phantom{0}55$   $\phantom{0}60$ 

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$ 

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly \$100\$

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 \$120\$

Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser 145 150 155 160

Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln 165 170 175

Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn Asn Arg \$-180\$

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser 195 200 205

Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Gly Thr Trp Asp Arg Ser Leu Ser Val Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}225\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 862

<211> 258 <212> PRT

<213> Homo sapiens

<400> 862

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Gly
20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Ile Val Phe  $65 \phantom{00} 70 \phantom{00} 75 \phantom{00} 75$ 

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Arg Trp Tyr Asp Ala Leu Thr Gly Asp Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Met Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly

130 135 140

Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}160\phantom{\bigg|}$ 

Pro Gly Gln Ser Val Thr Ile Ser Cys Ser Gly Thr Ser Ser Asp Ile \$165\$

Gly Asp Ser Asn Ser Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala 180 185 190

Pro Lys Leu Leu Ile Tyr Glu Val Thr Lys Arg Pro Ser Gly Val Pro 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Gly Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Ser 225 230 230

Ala Ala Arg Asn His Leu Val Phe Gly Gly Gly Thr Lys Val Thr Val 245 250 255

Leu Gly

<210> 863

<211> 255

<212> PRT

<213> Homo sapiens

<400> 863

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Thr Val Ser Gly Asp Ser Phe Ser Arg His  $20 \\ 25 \\ 30$ 

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Ser Val Tyr Asn Gly Asp Thr Lys Tyr Ala Gln Lys Val 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Val Tyr 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90 · 95 Ala Arg Asp Glu Gly Arg Asp Leu Leu Thr Gly Tyr Tyr Trp Pro Asn Phe Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu 135 Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln 150 Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Pro Asn Ile Gly Gly Asn 165 170 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu 180 185 Ile Tyr Ser Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 200 195 Gly Ser Lys Tyr Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln 210 215 220 Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu 240 230 235 Thr Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 864 <211> 259 <212> PRT <213> Homo sapiens <400> 864 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 25

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Asp Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100  $$105^{\circ}$$ 

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  $115 \\ 120 \\ 125$ 

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser Asn Ile 165  $$170\$ 

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 185 190

Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp 225 \$230\$

Asp Arg Leu Asn Ala His Val Val Phe Gly Gly Gly Thr Lys Val Thr 245 250 255

Val Lew Gly

<210> 865· <211> 258 <212> PRT <213> Homo sapiens <400> 865 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp 25 Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 55 Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 70 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 105 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly 130 135 140 Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala 150 155 Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile 165 170 Gly Arg Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Thr 180 185

1027

205

Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp

200

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210 . 215 220 Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Arg Ile Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val 245 . Leu Gly <210> 866 <211> 255 <212> PRT <213> Homo sapiens <400> 866 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 Ser Val Lys Val Ser Cys Thr Val Ser Gly Asp Ser Phe Ser Arg His 20 25 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Val Tyr Asn Gly Asp Thr Lys Tyr Ala Gln Lys Val 55 60 50 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Val Tyr Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Asp Glu Gly Arg Asp Leu Leu Thr Gly Tyr Tyr Trp Pro Asn Phe Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu

1028

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Arg Pro Asn Ile Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu 180 185 Ile Tyr Ser Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 200 Gly Ser Lys Tyr Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln 210 215 220 Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu 230 235 Thr Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 867 <211> 250 <212> PRT <213> Homo sapiens <400> 867 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Arg Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 75 . Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90

Val Arg Asp Gly Ile Asp Ile Leu Leu Val Pro Ala Ala Leu Met Asp

100 105 110

Val Trp Gly Arg Gly Thr Met Val Thr Val ser Ser Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145  $$150\ \ \, 155\ \ \, 160$ 

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180  $$180\,$ 

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210  $$\rm 215$$  220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 868

<211> 250

<212> PRT

<213> Homo sapiens

<400> 868

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Arg Asn Tyr Ala Gln Lys Leu 50 55 60

Gln 65	Gly	Arg	Val	Thr	Met 70	Thr	Thr	Asp	Thr	Ser 75	Thr	Ser	Thr	Ala	Tyr 80	
Met	Glu	Leu	Arg	Ser 85	Leu	Arg	Ser	Asp	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys	
Val	Arg	Asp	Gly 100	Ile	Asp	Ile	Leu	Leu 105	Val	Pro	Ala	Ala	Leu 110	Met	Asp	
Val	Trp	Gly 115	Lys	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly	
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Gln 140	Ser	Val	Leu	Thr	
Gln 145	Pro	Ala	Ser	Val	Ser 150	Gly	Ser	Pro	Gly	Gln 155	Ser	Ile	Thr	Ile	Ser 160	
Cys	Thr	Gly	Thr	Ser 165	Ser	qaA	Val	Gly	Gly 170		Asn	Tyr	Val	Ser 175	Trp	
Tyr	Gln	Gln	His 180	Pro	Gly	Lys	Ala	Pro 185	Lys	Leu	Met	Ile	Tyr 190	Glu	Gly	
Asn	Lys	Arg 195	Pro	Ser	Gly	Val	ser 200	Asn	Arg	Phe	Ser	Gly 205	Ser	Lys	Ser	
Gly	Asn 210	Thr	Ala	Ser	Leu	Thr 215	Ile	Ser	Gly	Leu	Gln 220	Ala	Glu	Asp	Glu	
Ala 225	Asp	Tyr	Tyr	Cys	ser 230	Ser	Tyr	Thr	Thr	Arg 235	Ser	Thr	Arg	Val	Phe 240	
Gly	Gly	Gly	Thr	Lys 245	Leu	Thr	Val	Leu	Gly 250							
<211> 869 <211> 257 <212> PRT <213> Homo sapiens																
	)> 86 Val		Leu	Val	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala	

Ser Met Lys Val Ser Cys Lys Ala Ser Ala Gly Arg Ala Ser Ala Tyr \$20\$

- Gly Phe Ala Met His Pro Ile His Trp Val Arg Gln Ala Pro Gly Gln 35 40 45
- Gly Leu Glu Trp Met Gly Trp Ile Asn Gly Gly Thr Gly Asn Thr Lys 50 60
- Tyr Ser Glu Lys Phe Leu Gly Arg Val Thr Met Thr Ser Asp Thr Ser 65  $\phantom{0}70$   $\phantom{0}75$   $\phantom{0}75$
- Ala Thr Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr  $85 \hspace{1cm} 90 \hspace{1cm} 95$
- Ala Val Tyr Tyr Cys Ala Arg Gln Asp Asn Asp Pro Leu Thr Gly Tyr 100 \$105\$
- Lys Leu Gly Phe Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser 115  $$120\$
- Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser 130 135 140
- Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160
- Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Thr Asn Val Gly Ala 165 170 175
- Gly Tyr Gly Val His Trp Tyr Gln Gln Phe Pro Glu Thr Ala Pro Lys 180 - 185 190
- Leu Leu Ile Tyr Gly Gly Ser Asn Arg Pro Ser Gly Val Pro Asp Arg 195 200 205
- Phe Ser Gly Ser Gln Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly 210  $$\rm 220$$
- Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr 225 230 235
- Thr Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu \$245\$

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Gly
<210> 870
<211> 254
<212> PRT
<213> Homo sapiens
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<221> Site
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> Site

<221> Site <222> (235)

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<221> Site

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> Site <222> (240)

<223> Xaa equals any of the naturally occurring L-amino acids

<400× 870

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Ile Leu Ser Leu Thr Cys Ala Ile Ser Gly Tyr Ser Val Ala Ser Asn \$20\$ \$25\$ \$30

Gly Ala Ala Trp Asn Trp Ile Arg Gln Xaa Pro Ser Xaa Gly Leu Glu \$35\$

Trp Leu Xaa Arg Thr Tyr Tyr Arg Xaa Lys Trp Tyr Val Asp Tyr Ala 50 55 60

Xaa Ser Xaa Lys Arg Xaa Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Val Val Val .85 90 95

Tyr Tyr Trp Ala Arg Asp Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr  $100 \\ 105 \\ 110$ 

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser 115 120 125 .

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Thr Xaa Asp Val Gly Gly Tyr Xaa

165 . 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Xaa

Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  $$\cdot$$  195 \$200

Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Xaa Tyr Ala Pro Xaa Xaa 225  $\phantom{\bigg|}230\phantom{\bigg|}$  230  $\phantom{\bigg|}235\phantom{\bigg|}$ 

Ile Ile Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 871

<211> 251 <212> PRT

<213> Homo sapiens

<400> 871

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ala Asp Tyr 20 25 30

Tyr Val His Trp Val Arg Gln Ala Ala Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Thr Gly Ser Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Met Thr Arg Asp Thr Ser Ile Lys Thr Val Tyr  $_{65}$  70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 150 155 Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp 170 165 Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn 180 185 Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu 215 210 Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 872 <211> 256 <212> PRT <213> Homo sapiens <400> 872 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1.0 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 2.0 25 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala

1036

75

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr

7.0

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr . 85 Tyr Cys Thr Thr Phe Asn Pro Thr Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 Ile Gly Gly Tyr Phe Gln His Trp Gly Gln Gly Thr Met Val Thr Val 115 . 120 ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly 135 Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 145 Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys 180 Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg 200 205 195 Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 210 215 220 Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr 225 230 235 240 Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly 245 250 255 <210> 873 <211> 254 <212> PRT <213> Homo sapiens <400> 873 Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu 1 5 10 15

Ser Leu Lys Ilè Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met 35 Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 55 60 Gln Gly Arq Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 70 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 105 Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 120 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 135 Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 150 155 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 . Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 200 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 874 <211> 251 <212> PRT

<213> Homo sapiens

<400> 874

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe  $50 \ \ 55 \ \ 60$ 

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 0.05$ 

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asn Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tvr Tvr Cvs Ser Ser Tvr Thr Thr Arg Ser Thr Arg Val 235 225 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 875 <211> 251 <212> PRT <213> Homo sapiens <400> 875 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu

135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170

Trp Tvr Gln Gln His Pro Glv Lvs Ala Pro Lvs Leu Met Ile Tvr Glu

180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \\ 230 \\ 235 \\ 240$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 876

<211> 251 <212> PRT

<213> Homo sapiens

<400> 876

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 877 <211> 248 <212> PRT <213> Homo sapiens <400> 877 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

70

65

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $\cdot$  100  $\cdot$  110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr  $130\,$ 

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165  $$170\$ 

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 878 .

<211> 247

<212> PRT

<213> Homo sapiens

<400> 878

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly 100 \$105\$

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  $_{\rm 130}$   $\,$ 

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 \$150\$

Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu 165 \$170\$ .

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro 180  $^{\circ}$  185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210  $\phantom{\bigg|}$  215  $\phantom{\bigg|}$  220

Cys Ala Ser Trp Asp Asp Ser Pro Asn Gly Arg Val Phe Gly Gly Gly 225 \$230\$

Thr Lys Leu Thr Val Leu Gly

<210> 879 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 879

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

5 1 . 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 75 80 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Ile Leu Gly 245 250

<210> 880

<211> 253 <212> PRT

<213> Homo sapiens

<400> 880

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln  $_{65}$   $\phantom{0}75$ 

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 \$105\$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly

195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}240\phantom{\bigg|}$ 

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 881

<211> 254 <212> PRT

<213> Homo sapiens

<400> 881

Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Val Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ala Val Leu Ser Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $_{70}$   $_{75}$   $_{80}$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val 100 \$105\$

Gly Arg Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145  $\phantom{\bigg|}150\phantom{\bigg|}$  150  $\phantom{\bigg|}155\phantom{\bigg|}$  160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 \$230\$

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  $245 \ \ \, 250$ 

<210> 882

<211> 251 <212> PRT

<213> Homo sapiens

<400> 882

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Asp Tyr Leu Phe Thr Lys Tyr  $20\,$  .  $\,25\,$ 

Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 . 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 883 <211> 250 <212> PRT <213> Homo sapiens <400> 883 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr

20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Ser Ser Gly Gly Asn Ile Tyr Tyr Ala Asp Ser Val Arg 50 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu 70 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 85 Arg Asp Ser Tyr Asp Ile Leu Thr Gly Tyr Arg Gly Tyr Tyr Phe Asp 100 105 Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr 135 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 150 155 Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 . 170 . Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 . 235 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 884 <211> 251 <212> PRT <213> Homo sapiens <400> 884 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 1.0 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

. 1050

20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100  $\,$  110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}225\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 885 <211> 253 <212> PRT <213- Homo sapiens																
<220																
<pre>&lt;2205 &lt;221&gt; Site &lt;222&gt; (214)</pre>																
			quals	any	y of	the	nati	naturally occurring L-am					nino	o acids		
	)> 81		GI w	002	Gly	27.5	G1.,	17-7	Tree	Tira	Dwo	a1	al.r	Com	Ten	
1	val	GIII	6111	5		AIG	GIU	vai	10	Бур	PIO	GIY	GIY	15	Den	
Arg	Leu	Ser	Сув 20	Ala	Ala	Ser	Gly	Phe 25	Thr	Phe	Ser	Ser	Tyr 30	Ser	Met	
Asn	Trp	Val 35	Arg	Gln	Ala	Pro	Gly 40	Lys	Gly	Leu	Glu	Trp 45	Val	Ser	Ser	
Ile	Ser 50	Ser	Ser	Ser	Ser	Tyr 55	Ile	Tyr	Tyr	Ala	Asp 60	Ser	Val	Lys	Gly	
Arg 65	Phe	Thr	Ile	Ser	Arg 70	Asp	Asn	Ala	Lys	Asn 75	Ser	Leu	Tyr	Leu	Gln 80	
Met	Asn	Ser	Leu	Arg 85	Ala	Glu	Asp	Thr	Ala 90	Val	Tyr	Tyr	Сув	Ala 95	Arg	
Glu	Gly		Asn 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Tyr	Ile	Gly 110	Asn	Gly	
Ala	Phe	Asp 115	Ile	Trp	Gly	Arg	Gly 120	Thr	Met	Val	Thr	Val 125	Ser	Ser	Gly	
Gly	Gly 130	Gly	Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Gln	Ser	
Val 145	Leu	Thr	Gln	Pro	Ala 150	Ser	Val	Ser	Gly	Ser 155	Pro	Gly	Gln	Ser	Ile 160	
Thr	Ile	Ser	Cys	Thr 165	Gly	Thr	Ser	Ser	Asp 170	Val	Gly	Gly	Tyr	Asn 175	Tyr	
Val	Ser	Trp	Tyr 180	Gln	Gln	His	Pro	Gly 185	Lys	Ala	Pro	Lys	Leu 190	Met	Ile	

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Xaa Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 886 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 886

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000}$ 

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile

145 150 . 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 887

<211> 251 <212> PRT

<213> Homo sapiens

<400> 887

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 . 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 180 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 888 <211> 254 <212> PRT <213> Homo sapiens <400> 888 Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr 25 Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met

40 Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 50 55

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 65 . 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 . 105

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 \$135\$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  $165 \hspace{1cm} 170 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$ 

Tyr Val Ser Trp Tyr His Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Phe Arg Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser His Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  $245 \ \ 250$ 

<210> 889

<211> 251

<212> PRT

<213> Homo sapiens

<400> 889

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser	Val	Thr	Val 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Tyr	Asn	Phe	Ile 30	Thr	Тут
Gly	Ile	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met
Gly	Trp 50	Ile	Asn	Pro	Gly	Ser 55	Gly	Asn	Thr	Gly	Ser 60	Ser	Gln	Lys	Phe
Asn 65	His	Arg	Val	Thr	Ile 70	Thr	Arg	qaA	Thr	Ser 75	Ala	Thr	Thr	Ala	Tyr 80
Met	Glu	Met		Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	11e
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg		Ser 205	Gly	Ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Ьеи 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	Gly	Gly	Gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					

<210> 890 <211> 251 <213> Homo sapiens <400> 890 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Val Lys Val Ser Cys Met Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110 Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160 Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220 Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 891 <211> 251 <212> PRT <213> Homo sapiens <400> 891 Val Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 . 10 Ser Val Lys Val Phe Cys Met Ser Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr

165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 \$200 . \$205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 892

<211> 249 <212> PRT

<213> Homo sapiens

<400> 892

Gln Val His Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $50 \\ 60$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 150 · 155 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 . 185 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 215 220 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 230 235 Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 893 <211> 248 <212> PRT <213> Homo sapiens Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 25 Gly Ile Ser Trp Val Arq Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe 50 55

1061

75

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr

70

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe
100 105 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 . 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr  $130\,$ 

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145  $$150\ \cdot\ \cdot\ 155\$ 

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165  $$170\$ 

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 894

<211> 251

<212> PRT

<213> Homo sapiens

<400> 894

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 . 125 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 135 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 150 155 Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 170 165 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 185 180 Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 215 Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 235 240 225 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 895 <211> 248

<212> PRT

<213> Homo sapiens

<400> 895

Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser 1 5 10 15

Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala 20 25 30

Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly 35 40 45

Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe Gln 50 55 60

Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr Leu  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val Trp 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Thr Val Ser Val Ala Leu Gly Gln Thr Val Ser Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Thr Trp Tyr Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Leu Tyr Gly Asp Asn Lys Arg 180 185 .190

Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser Thr Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 \$215\$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly His Gln Trp Leu Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 896

<211> 249

<212> PRT

<213> Homo sapiens

<400> 896

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 . 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Gly Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala His Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130  $$135\$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Ala Lys Asn Lys

180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 897 <211> 252

<211> 252 <212> PRT

<213> Homo sapiens

<400> 897

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala . 20 , 25 , 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 \$50\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $65 \phantom{000}70\phantom{000}75\phantom{000}$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 \$100\$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe 170 165 Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 190 Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr 195 200 205 Ser Glv Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 215 220 210 Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro 225 230 235 240 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 898 <211> 252 <212> PRT <213> Homo sapiens <400> 898 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15 Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr 20 25 30 Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 45 Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe 55 60 . Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

70 . 75

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe 100 105

Gln Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val 130 135 140

Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Thr Asn Thr Val Asn  $_{165}$   $_{170}$   $_{170}$   $_{175}$ 

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser  $180 \,$   $\,$  180  $\,$  180  $\,$ 

Asn His Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ala Arg Asp Asp Ser Leu Asn Gly Val  $225 \\ 230 \\ 235 \\ 240$ 

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 899

<211> 250 <212> PRT

<213> Homo sapiens

<400> 899

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr \$20\$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe  $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$ 

Gln Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Thr 145 \$150\$

Ile Thr Cys Ser Gly Asp Glu Leu Gly Arg Lys Tyr Val Ser Trp Tyr  $165 \hspace{1.5cm} 170 \hspace{1.5cm} 175$ 

Gln Gln Lys Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr Gln Asp Ser 180 185 190

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Ala Ser Asn Ser Gly 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Pro Met Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Gln Ala Arg Asp Thr Thr Thr Ala Phe Ser Val Phe 225 230 235

Gly Thr Gly Thr Lys Val Thr Val Leu Gly . 245 250

<210> 900

<211> 248

<212> PRT <213> Homo sapiens

<400> 900

His Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Phe Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 2.0 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 4.0 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 

Gly Thr Lys Leu Thr Val Leu Gly

<210> 901

<211> 250 <212> PRT

<213> Homo sapiens

<400> 901

His Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ser Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40  $\cdot$  45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 . 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 150

Cys Ser Gly Ser Arg Ser Ser Ile Gly Ser Asn Thr Val Asn Trp Tyr \$165\$ \$170\$ \$175\$

Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asp Asp 180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly

195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala

Asp Tyr His Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Tyr Val Phe 225 230 235

Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 902

<211> 253 <212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 902

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr \$20\$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Leu Glu Val Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe \$100\$

Gln Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val

Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Thr Ser Ser Asn Ile Gly Gly Asn Ser Val Ser 165 170 175

Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser 180 185 190

Asn Asn Arg Arg Pro Ser Xaa Val Pro Asp Xaa Phe Ser Gly Ser Lys \$195\$

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Gly Asp  $$210^{\circ}$$ 

Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Asn Gly Arg 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Val Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  $$245^{\circ}$$ 

<210> 903

<211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 903

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Tyr Gly Gly Ser Phe Asn His Ala  $20 \\ 25 \\ 30$ 

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 . 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50  $\,$  55  $\,$  60  $\,$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 130 \$135\$

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser  $180 \,\,\,$   $185 \,\,\,$ 

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210  $\phantom{\bigg|}215\phantom{\bigg|}$  220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 904

<211> 251

<212> PRT <213> Homo sapiens

<400> 904

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$ 

- Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60
- Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80
- Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $$85\ 90\ 95$
- Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val
- Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125
- Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr  $_{130}$   $\phantom{0}$   $\phantom{0}$  135
- Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$
- Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp 165 170 175
- Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190
- Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205
- Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 210 215 220
- Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Trp Val 225  $\phantom{\bigg|}230\phantom{\bigg|}$
- Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 905

<211> 254

<212> PRT

<213> Homo sapiens

<400> 905

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe 50 60

Glu Gly Arg Val Ile Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  $100\,$ 

Ala Phe Asp Gln Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu 130 135

Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly 145 150 155 160

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Arg Ser Asn 165 170 175

Tyr Leu Ala Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Arg Leu Leu 180  $$185\$ 

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 210 215 220

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Glu Tyr Gly Phe Ser Leu 225 230 235 Pro Asn Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg 250 245 <210> 906 <211> 255 <212> PRT <213> Homo sapiens <400> 906 Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala 1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr 20 25 Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe 50 55 Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr 70 75 80 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser 100

Pro Leu Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln 130 135 140

Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Asn Asn 165 \$170\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 185 180 Ile Phe Asp Val Tyr Thr Arg Pro Ser Gly Val Ala Ser Arg Phe Ser 200 195 Gly Ser Lys Ser Ala Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 215 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ser Thr Asn Thr 230 225 Met Ser His Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 907 <211> 256 <212> PRT <213> Homo sapiens <400> 907 Glu Val Gln Leu Val Glu Thr Gly Gly Gly Val Val Gln Pro Gly Gly 5 10 Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met 35 40 Ala Val Ile Ser Ser Asp Gly Thr Lys Arg Tyr Tyr Ala Asp Ser Val 50 55 60

Gln Gly Arg Leu Thr Ile Ser Arg Asp Asn Phe Val Lys Thr Leu Ser

Leu Glu Met His Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe \$100\$ 105 110

His His Gly Val Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 130 140

Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 145 150 150

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg 165 170 175

Tyr Asn Tyr Val Ser Trp Tyr Arg Gln Tyr Pro Gly Glu Ala Pro Lys 180 185 190

Leu Met Ile Tyr Gly Val Ile Asn Arg Pro Ser Gly Val Ser Ser Arg

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 210 215 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Ser Tyr Ala Gly 225 230 235 240

Arg Ser Thr Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 908

<211> 251

<212> PRT

<213> Homo sapiens

<400> 908

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Pro Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

. 1079

85 90 9

Ala Arg Asp Ala Gln Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ser 100 105 110

Tyr Ala Phe Asp Ile Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 \$150\$

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp 165 170 175

Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys 180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 909

<211> 253 <212> PRT

<213> Homo sapiens

<400× 909

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp  $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$ 

Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 130 135 140

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 145 \$150\$

Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln \$165\$

Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val Ile Tyr Glu 180 185 190

Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Ala Leu 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 910 <211> 251

<212> PRT

<213> Homo sapiens

<400> 910 Val Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1.0 5 Ser Val Lys Val Ser Cys Arg Ser Ser Gly Gly Ser Phe Asn His Ala 20 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 60 Glv Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 135 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 155 150 Thr Cys Glv Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 170 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 200 195 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 220 210

. 1082

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 911 <211> 249 <212> PRT

<213> Homo sapiens

<400> 911

Asp Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  $20 \hspace{1cm} 25 \hspace{1cm} 30$ 

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  $_{\rm 50}$   $_{\rm 60}$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125 .

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130 \$135\$

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210  $\phantom{\bigg|}215\phantom{\bigg|}$  220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 912 <211> 249

<212> PRT <213> Homo sapiens

<400> 912

Lys Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val $_{50}$ 

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145  $\phantom{-}150\phantom{0}$  150  $\phantom{-}155\phantom{0}$  .

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr \$195\$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Ser Thr His Arg Gly Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 913

<211> 248

<212> PRT

<213> Homo sapiens

<400> 913

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

Ser Leu Arg Leu Ser Cys Ala Ala Phe Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Ser Asn Arg Gly Ser Tyr Ile Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}70$   $\phantom{0}75$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arq Glu Gly Arq Asp Ile Leu Thr Gly Val Tyr Tyr Gly Leu

100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 619 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 \$170\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 \$200\$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 914

<211> 248

<212> PRT

<213> Homo sapiens

<400> 914

Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1  $\phantom{0}$  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val  $_{\rm 50}$ 

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 95 Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110 Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 1.20 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 175 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arq 180 185 190 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220 Tyr Cys Asn Ser Arg Gly Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240 Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 915 <211> 247 <212> PRT

<212 Per
<213 Homo sapiens
<400> 915
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly
1 5 10 15

Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Val	Ser 30	Ser	Asn
Tyr	Met	Ser 35	Trp	Val	Arg	Gln	Ala .40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Val 50	Val	Tyr	Ala	Asp	Gly 55	Arg	Thr	Tyr	Tyr	Ala 60	Asp	Ser	Val	Lys
Gly 65	Arg	Phe	Thr	Ile	Ser 70	Arg	Asp	Asn	Ser	Arg 75	Asn	Thr	Leu	Tyr	Leu 80
Gln	Met	Asn	Ser	Leu 85	Arg	Ala	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Thr	Tyr	Tyr 100	Азр	Ile	Leu	Thr	Gly 105	Arg	Phe	Phe	Asp	Ile 110	Trp	Gly
Arg	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser	Gly	Gly	Gly	Gly 125	Ser	Gly	Gly
Gly	Gly 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Gln	Ser	Val	Leu 140	Thr	Gln	Pro	Ala
Ser 145	Val	Ser	Gly	Ser	Pro 150	Gly	Gln	Ser	Ile	Thr 155	Ile	Ser	Cys	Thr	Gly 160
Thr	Ser	Ser	Asp	Val 165	Gly	Gly	Tyr	Asn	Tyr 170	Val	Ser	Trp	Tyr	Gln 175	Gln
His	Pro	Gly	Lys 180	Ala	Pro	Lys	Leu	Met 185	Ile	Tyr	Glu	Gly	Ser 190	Lys	Arg
Pro	Ser	Gly 195	Val	Ser	Asn	Arg	Phe 200	Ser	Gly	Ser	Lys	Ser 205	Gly	Asn	Thr
Ala	Ser 210	Leu	Thr	Ile	Ser	Gly 215	Leu	Gln	Ala	Glu	Asp 220	Glu	Ala	Asp	Tyr
Tyr 225	Cys	Ser	Ser	Tyr	Thr 230	Thr	Lys	Ser	Thr	Arg 235		Phe	Gly	Gly	Gly 240
Thr	Lys	Leu	Thr	Val 245	Leu	Gly									

<210> 916 <211> 248 <212> PRT <213> Homo sapiens															
	)> 91 Val		Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Val	Val	Gln	Pro	Gly 15	Gly
ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Val	Asn 30	Ser	Tyr
Ala	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Gln	Trp	Val
Ala	Val 50	Ile	Ser	Tyr	Asp	Gly 55	Ser	Lys	Lys	Tyr	Tyr 60		Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Val 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ser	His 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Leu	Asn	Tyr	Trp 110	Tyr	Phe
Asp	Leu	Trp 115	Gly	Arg	Gly	Thr	Thr 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140		Glu	Leu	Thr
Gln 145	Asp	Pro	Ala	Val	Ser 150	Val	Ala	Leu	Gly	Gln 155	Thr	Val	Arg	Ile	Thr 160
Cys	Gln	Gly	Asp	Ser 165	Leu	Arg	Ser	Tyr	Tyr 170	Ala	Ser	Trp	Tyr	Gln 175	Gln
Lys	Pro	Gly	Gln 180	Ala	Pro	Val	Leu	Val 185	Ile	Tyr	Gly	Lys	Asn 190	Asn	Arg
Pro	Ser	Gly 195	Ile	Pro	Asp		Phe 200	Ser	Gly	Ser	Ser	Ser 205	Gly	Asn	Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 Lys Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly , 230 235 225 Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 917 <211> 251 <212> PRT <213> Homo sapiens <400> 917 Val Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 10 Ser Leu Arg Leu Phe Cys Ala Val Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 3.0 Ala Met Thr Tro Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Tro Val 40 Ala Thr Ile Ser Asp Ser Ala Asp Arg Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Ile Phe Arg Asp Asn Ser Arg Asn Met Leu Tyr 65 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Leu Arg Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe 100 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 . 140 130 Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile

1090

155

150

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$ . \$170\$ \$175\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp 180 185 190

Val Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 918

<211> 249

<212> PRT

<213> Homo sapiens

<400> 918

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Thr Gly Tyr Thr Phe Arg Thr Ser 20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Gln

Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val 145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 180 185 190

Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 210 215 220

Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 919

<211> 249 <212> PRT

<213> Homo sapiens

<400> 919

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 95 85 Ala Arg Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Phe His Tyr Gly 110 100 105 Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Val 130 135 140 Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly Asp Arg Val 145 150 155 160 Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala Trp 165 170 175 Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 180 185 190 Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205 Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 210 215 220 Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 230 235 240 Gly Gly Thr Lys Leu Glu Ile Lys Arg 245 <210> 920 <211> 248 <212> PRT <213> Homo sapiens <400> 920 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 10 Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Asn Phe Gly Asp Tyr . 20

Ala Met Gly Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val 35 Ala Ala Thr Ser Tyr Asn Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 75 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tvr Tvr Cvs 85 9.0 Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 105 110 Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 135 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 155 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 . 215 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 235 225 230

Gly Thr Lys Leu Thr Val Leu Gly

<210> 921 <211> 248

<212> PRT <213> Homo sapiens

<400> 921 Gin Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Val Tyr Tyr Gly Met Asp  $100 \,$   $105 \,$   $110 \,$ 

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu 130  $$^{\rm 135}$$ 

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 150 160

Ile Thr Cys Gln Gly Asp Gly Leu Arg Asn Tyr Tyr Ala Asn Trp Tyr 165 \$170\$

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn 180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Arg Ala Glu Asp Glu Gly 210 215 220

Val Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Ala Val Phe Gly Gly 225 235 Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 922 <211> 251 <212> PRT <213> Homo sapiens <400> 922 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Asp Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Gly Ile Ser Trp Asn Ser Gly Thr Ile Gly Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Ser 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arq Val Ser Pro Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Pro 105 His Ala Phe Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 120 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asi 130 135 140

Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp 145  $\,$  150  $\,$  155  $\,$  160

Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu 165 170 175

Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr

Lys Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser 195  $200 \ \ 205$ 

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  $210 \ \ \, 215 \ \ \, 220 \ \ \,$ 

Asp Phe Ala Thr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr 225 230 235

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg

<210> 923

<211> 247

<212> PRT <213> Homo sapiens

<400> 923

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Phe Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Val Val Tyr Ala Asp Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Thr Leu Tyr Leu 65  $\phantom{000}70\phantom{000}75\phantom{000}$  75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Thr Tyr Tyr Asp Ile Leu Thr Gly Arg Phe Phe Asp Ile Trp Gly  $100 \\ \phantom{1}100 \\ \phantom{1}110$ 

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala

130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150 150 155

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Lys Ser Thr Arg Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 924

<211> 247 <212> PRT

<213> Homo sapiens

<400> 924

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1  $\phantom{0}$  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  $$85\,$   $90\,$   $95\,$ 

Ala Arg Pro Ser Tyr Asp Ile Leu Thr Gly Tyr Leu Tyr Tyr Phe Asp 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Val Pro Val Ile Tyr Gly Lys Asn Asn Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 925 <211> 251

<212> PRT

<213> Homo sapiens

 $<\!400>$  925 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val 35 40 45 .

Ala Thr Ile Ser Asp Ser Ala Asp Arg Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Phe Arg Asp Asn Ser Arg Asn Met Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Leu Arg Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe , 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp \$180\$

Val Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
245 250

<210> 926 <211> 249

<212> PRT

<213> Homo sapiens

<400> 926

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Thr Gly Tyr Thr Phe Arg Thr Ser 2.0 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 7.0 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly 100 Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln 135 130 Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val 145 150 Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp 165 175 Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 190 180 Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205 Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 210 215 220 Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 235 240 225 230

Gly Gly Thr Lys Leu Glu Ile Lys Arg

<210> 927 <211> 247

<212> PRT <213> Homo sapiens

<400> 927

Squy S27
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  $20 \ 25 \ 30$ 

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe 50

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Gln Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Trp Phe Asp  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$ 

Pro Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145  $\,$  150  $\,$  150  $\,$  155  $\,$ 

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 180 185

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Gln Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 928

<211> 246 <212> PRT

<213> Homo sapiens

<400> 928

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln

160

150 155

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro\$165\$

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser \$180\$

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser 195 200 205

Asn Ser Arg Asp Ser Ser Gly Asn His Ala Val Phe Gly Gly Gly Thr 225 230 235 240

Lys Leu Thr Val Leu Gly 245

<210> 929 <211> 253

145

<212> PRT <213> Homo sapiens

<400> 929

Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Thr Phe Ser Ser Tyr  $20 \\ 25 \\ 30$ 

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn 100 105 110

Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180  $$185\$ 

Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195  $200\,$  205

Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Ile Gly \$245\$

<210> 930 <211> 251

<212> PRT <213> Homo sapiens

<400> 930 Gln Val Gln Leu Val Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  $20 \ 25 \ 30$ 

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $35 \ \ \, 40 \ \ \, 45$ 

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe  $_{50}$   $_{60}$ 

Gln Glv Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 70 75 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Pro Leu Arg . 105 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tvr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Thr Arg Ser Thr Arg Val 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 931 <211> 253 <212> PRT <213> Homo sapiens Gin Val Gin Leu Gin Glu Ser Gly Gly Gly Leu Val Gin Pro Gly Arg 1 5 10 15

Ser	Leu	Arg	Leu 20	Ser	Cys	Lys	Thr	Ser 25	Gly	Phe	Ser	Phe	Gly 30	Asp	His
Ala	Met	Gly 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Ile
Gly	Tyr 50	Ile	Arg	Ser	ГÀг	Ala 55	Tyr	Gly	Gly	Thr	Thr 60	Glu	Ser	Ala	Ala
Ser 65	Val	rys	Gly	Arg	Phe 70	Ser	Ile	Ser	Arg	Asp 75	Asp	Ser	Lys	Ser	Ile 80
Ala	Tyr	Leu	Gln	Met 85	Asn	Ser	Leu	Lys	Thr 90	Glu	Asp	Thr	Ala	Val 95	Tyr
Tyr	Cys	ser	Arg 100	Asn	Leu	Phe	Asp	Val 105	Trp	Thr	Leu	Pro	Tyr 110	Tyr	Tyr
Tyr	Met	Asp 115	Val	Trp	Gly	Arg	Gly 120	Thr	Thr	Val	Thr	Val 125	Ser	Ser	Gly
Gly	Gly 130	Gly	Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Gln	Ser
Val 145	Leu	Thr	Gln	Pro	Ala 150	Ser	Val	Ser	Gly	Ser 155	Pro	Gly	Gln	Ser	Ile 160
Thr	Ile	Ser	Cys	Thr 165	Gly	Thr	Ser	Ser	Asp 170	Val	Gly	Gly	Tyr	Asn 175	Tyr
Val	Ser	Trp	Tyr 180	Gln	Gln	His	Pro	Gly 185	Lys	Ala	Pro	Lys	Leu 190	Met	Ile
Tyr	Glu	Gly 195	Ser	Lys	Arg -	Pro	Ser 200	Gly	Val	Ser	Asn	Arg 205	Phe	Ser	Gly
Ser	Lys 210	Ser	Gly	Asn	Thr	Ala 215	Ser	Leu	Thr	Ile	Ser 220	Gly	Leu	Gln	Ala
Glu 225	Asp	Glu	Ala	Asp	тут 230	Tyr	Сув	Ser	Ser	Tyr 235	Thr	Thr	Arg	Ser	Thr 240
Arg	Val	Phe	Gly	Gly 245	Gly	Thr	Lys	Leu	Thr 250	Val	Leu	Gly			

<211 <212	)> 93 .> 25 ?> PI ?> Ho	SO RT	sapie	ens											
	)> 93														
Gln 1	Val	Gln	Leu	Gln 5	Gln	Ser	GIA	Ala	10	GIu	Lys	Lys	Pro	15 15	Ala
Ser	Val	ГÀв	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Ser	Tyr
Ala	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Arg	Leu 45	Glu	Trp	Met
Gly		Ile	Asn	Ala	Gly		Gly	Asn	Thr	Lys	Tyr 60	Ser	Gln	Lys	Phe
	50					55					80				
Gln 65	Gly	Arg	Val	Ala	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Asp 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Ser	Pro	Leu 110	Thr	Tyr
Gly	Met	Asp 115	Val	Trp	Gly	Arg	Gly 120	Thr	Leu	Val	Thr	Val 125	Ser	Ser	Gly
Gly	Gly 130	Gly	Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Asp	Ile
Gln 145	Met	Thr	Gln	Ser	Pro 150	Ser	Thr	Leu	Ser	Ala 155	Ser	Ile	Gly	Asp	Arg 160
Val	Thr	Ile	Thr	Cys 165	Arg	Ala	Ser	Glu	Gly 170	Ile	Tyr	His	Trp	Leu 175	Ala
Trp	Tyr		Gln 180			Gly	Lys	Ala 185	Pro	Lys	Leu		Ile 190	Tyr	Lys

Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly 195 200 205

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp 210 215 220

Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg 245 250

<210> 933

<211> 250

<212> PRT

<213> Homo sapiens

<400> 933

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Val Asn Asn Asn 20 25 30

Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  $85 \ \ 90 \ \ 95$ 

Tyr Cys Thr Thr Met Tyr Tyr Asp Ile Leu Thr Gly His Asn Phe Asp 100 105 110

Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Cys Ile Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp

165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 934

<211> 253 <212> PRT

<213> Homo sapiens

<400> 934

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asp Ser 20 25 30

Ser Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Gly Gly Ile Ile Pro Ser Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  $_{\rm 50}$ 

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr 65  $\phantom{000}70\phantom{000}75\phantom{000}$  80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Val Ser Arg Asp Ile Leu Thr Gly Asn Tyr Tyr Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Tyr Val 130 135 Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr 150 Ile Ser Cvs Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val Lys 170 165 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly 180 Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp 215 220 210 Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser 225 230 235 240 Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 250 245 <210> 935 <211> 253 <212> PRT <213> Homo sapiens <400> 935 Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Thr Phe Ser Ser Tyr 20 25 30 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 4.0 Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe 55 60 Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr

1111

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn 105 Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly 120 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 155 150 Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val 170 165 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 200 . Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 215 210 Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 235 225 230 Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 936 <211> 253 <212> PRT <213 > Homo sapiens Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Arg 5 10 Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr

1112

3.0

25

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Phe Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr Glu Tyr Ala Ala 50 55 60 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile 70 Ala Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 Tyr Cys Thr Arg Ala Gly Gly Tyr Tyr Asp Ile Leu Thr Gly Arg Asp 100 105 Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val 115 120 Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135. Ser Asp Val Val Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Phe Val 150 155 Gly Asp Thr Ile Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Tyr Asn 170 165 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu 180 185 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser 195 200 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln 215 Pro Glu Asp Phe Gly Thr Tyr Tyr Cys Gln Gln Leu Ile Ser Tyr Pro 230 235 240 225 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 245 250

<210> 937 <211> 239 <212> PRT

<213> Homo sapiens

<400> 937

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile Asn Trp Asn Gly Gly Ser Thr Gly Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Ala Arg Arg Arg Tyr Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val

Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 130 135 140

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 145 \$150\$

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 165 170 175

Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 180 185 190

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 195 200 . 205

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 210 215

Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 225 230 235

<210> 938

<211> 253 <212> PRT

<213> Homo sapiens

<400> 938

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Thr Phe Ser Ser Asp 20 25 30

Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Gly Arg Ser Arg Ser Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Asp Arg Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Pro Pro  $100 \ \ 105 \ \ \ 110$ 

His Tyr Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Val Arg fle Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr 180 185 190

Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser

195 200 205

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu 210 215 . 220

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 939 <211> 253

<212> PRT

<213> Homo sapiens

<400> 939

Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Ser Phe Ser Ser Tyr  $\phantom{-}20$   $\phantom{-}25$   $\phantom{-}30$ 

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe  $50 \,\,$ 

Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000}$  75

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn 100 105 110

Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 140

Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 145 150 155 160

Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 190

Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195  $200\,$  205

Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 225 230 235 240

Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 940

<211> 251

<212> PRT

<213> Homo sapiens

<400> 940

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35  $$40\$  .  $$45\$ 

Gin Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100  $\,$  100  $\,$  110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Ile Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 941 <211> 249

<212> PRT <213> Homo sapiens

<400> 941

Glu Val Gln Leu Val Gln Ser Gly Gly Val Val Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $_{\rm 35}$ 

Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val $_{50}$ 

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Lys Thr Leu Tyr 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Gly Gly Gly Ser 115 Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln-135 Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys 150 Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr 170 175 Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser 1.80 185 Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly 200 Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu'Asp Glu Ala 215 Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly 235 240 230 Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 942 <211> 250

<212> PRT <213> Homo sapiens

<400> 942 Gln Val Gln Leu Gln Gln Ser Arg Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr

30

25

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe 50

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr 70

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 35

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp 105

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115

. 20

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr 130 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 . 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 943 <211> 251

<212> PRT <213> Homo sapiens

<400> 943

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Fhe Gly Asn Ala

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val . \$35\$

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Ser Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp 100 105 110

Gly Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser  $_{130}$   $_{140}$ 

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp \$165\$ \$170\$

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys \$180\$

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu

210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Leu 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 944

<211> 251 <212> PRT

<213> Homo sapiens

<400> 944

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{-}$  5  $\phantom{-}$  10  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Glu Pro Glu Trp Met
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys .195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 945 <211> 251

<212> PRT

<213> Homo sapiens

<400> 945

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Thr Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Lys Asp Tyr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Val Ile Asn Pro Asn Gly Ile Ser Thr Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Met Ser Thr Ser Thr Val Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Phe Tyr Cys 85 90 . 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 005 \\ 110$ 

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly .115

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195  $\phantom{\bigg|}$  200  $\phantom{\bigg|}$  205

Glu Ala Asp Tyr Tyr Cys Tyr Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 946 <211> 249

<212> PRT

<213> Homo sapiens

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Met Lys Pro Ser Glu 1 5 10 15

Thr Leu Thr Leu Thr Cys Ala Gly Tyr Gly Gly Tyr Phe Ser Thr Tyr \$20\$

Tyr Trp Ser Trp Met Arg Gln Thr Pro Gly Lys Gly Leu Glu Cys Met  $35 \ \ \, 40 \ \ \, 45$ 

Gly Glu Ile Asn His Ser Glu Ser Thr Asn Tyr Tyr Pro Ser Leu Met . 50  $$\,^{5}$ 

Ser Gly Val Thr Ile Leu Leu Asp Thr Ser Asn Asn Gln Ile Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Asp Ala Tyr Thr Gly Ala Tyr Tyr Cys Ala

Thr Ile Arg Leu Tyr Cys Tyr Ser Leu Thr Gly Tyr Tyr Pro Tyr Gly . 100  $\,$  105  $\,$  110

Met Asp Asp Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu  $_{130}$   $\,\,$   $_{140}$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165  $$170\$ 

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Gly Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Tyr Tyr Cys His Tyr Gln Asp Ser Ser Gly Asn His Val Leu Phe Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 947 <211> 250

<212> PRT

<213> Homo sapiens

<400> 947

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Asn Thr Ser 20 25 30

Ala Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  $50 \,$ 

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr 65 , 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Thr Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Gln Gly Val Asp

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 \$135\$

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 \$150\$

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp \$165\$ \$170\$ \$175\$

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 \$215\$

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 948

<211> 247

<212> PRT

<213> Homo sapiens

<220> <221> Site <221> (227) <222> Mae equals any of the naturally occurring L-amino acids															
\22.	, Ac		4 ccc r	,	, 0-				-, 0,					401	
	)> 94 Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Glγ	Tyr	Thr	Phe	Thr 30	Ser	Tyr
Gly	Ile	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Ģlu	Trp	Met
													,		
Gly	Trp 50	Met	Asn	Pro	Asn	Ser 55	Gly	Asn	Thr	Gly	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Met 70	Thr	Arg	Asn	Thr	Ser 75	Thr	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Сув
Ala	Arg	Gly	Gln 100	Tyr	Tyr	Asp	Ile	Leu 105	Thr	Gly	Tyr	Asn	Trp 110	Phe	Asp
Pro	Trp	Gly 115	Lys	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125		Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	GŢĀ	Ser	Ser 140	Glu	Leu	Thr	Gln
Asp 145	Pro	Ala	Val	Ser	Val 150	Ala	Leu	Gly	Gln	Thr 155	Val	Arg	Ile	Thr	Cys 160
Gln	Gly	Asp	Ser	Leu 165	Arg	Ser	Tyr	Tyr	Ala 170	Ser	Trp	Tyr	Gln	Gln 175	Lys
Pro	Gly	Gln	Ala 180	Pro	Val	Leu	Val	Ile 185	Tyr	Gly	Lys	Asn	Asn 190	Arg	Pro
Ser	Gly	Val 195	Pro	Asp	Arg	Phe	Ser 200	Gly	Ser	Ser	Ser	Gly 205	Asn	Thr	Ala

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215

Cys Asn Xaa Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly

<210> 949

<211> 251

<212> PRT <213> Homo sapiens

<400> 949

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

1 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asn Ala \$20\$

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Arg Ile Lys Ser Lys Thr Ser Asp Gly Thr Thr Asp Tyr Ala Ala 50 60

Pro Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr \$85\$ 90 95

Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 \$150\$ 150 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp

165 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 190

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210  $\,$  215  $\,$  220  $\,$ 

Ala Asp Tyr Tyr Cys Asn Tyr Arg Asp Ser Ser Gly Asn His Val Val 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 950

<211> 248

<212> PRT

<213> Homo sapiens

<400> 950

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Asp

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ser Gln Lys Phe
50 55 60

Arg Asp Arg Val Thr Met Thr Arg Asp Thr Ala Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 \$170\$

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 951 <211> 251 <212> PRT

<213> Homo sapiens

<400> 951

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr 20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Tyr Ile Ser Ser Ser Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

	Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
	Ala	Arg	Asp	Phe 100	туr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Pro	Leu	Gly 110	Gly	Met
	-	Val	Trp 115	Gly	Lys	Gly	Thr	Leu 120	Val	Thr	Val	Phe	Ser 125	Gly	Gly	Gly
	Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
	Thr 145	Gln	Pro	Ala	Ser	Ala 150		Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
	Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
	Trp	Tyr	Gln <sub>.</sub>	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
	Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
	Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
	Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
	Phe	Gly	Gly	Gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					
<210> 952 <211> 251 <212> PRT <213> Homo sapiens																
	~213	> nc	Julo 2	erbro	1115							,				
		)> 98 Val		Leu	Val 5	Gln	Ser	Gly	Gly	Gly 10	Val	Val	Gln	Pro	Gly 15	Gly
	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 65 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 95 Ala Lys Asp Leu Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Thr 100 105 110 Ser Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 120 125 115 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 140 130 135 Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 150 155 160 145 Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 170 165 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205 Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220 Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 235 . 240 225 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

250

<210> 953 <211> 248

<213> Homo sapiens

<400> 953

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 . 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Val Ser Ala Ala Tyr  $65 \phantom{00}$  .  $\phantom{00}75\phantom{0}$  80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe \$100\$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 . 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Ser Trp Tyr Gln Gln \$165\$

Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Gly Lys Asn Asn Arg \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Tyr Gln Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 954

<211> 253 <212> PRT

<213> Homo sapiens

<400> 954

Gln Val Gln Leu Gln Glu Ser Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  $\phantom{-}20\phantom{+}25\phantom{+}$ 

Gln Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Asn 50  $\,$  55  $\,$  60

Ser Arg Val Thr Ile Ser Gln Asp Thr Ser Asn Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr His His 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165  $$170\$ 

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile

180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 955

<211> 251 <212> PRT

<213> Homo sapiens

<400> 955

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $_{70}$   $_{70}$   $_{75}$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 160 145 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220-Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 956 <211> 252 <212> PRT <213> Homo sapiens <400> 956 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 10 . 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 4.0 Ala Val Ile Ser Tyr Asp Gly Ser Asp Lys Tyr Tyr Glu Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 .

Ala Arg Asp Ser Gly Gly Asp Ile Leu Thr Gly Tyr Tyr Met Pro Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val 135 Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Glv Gln Ser Ile Thr 150 Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val 165 170 Ser Trp Tvr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 185 Glu Gly Ser Arg Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 195 200 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Pro Gln Ala Glu 210 215 220 Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 235 240 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 957 <211> 249 <212> PRT <213> Homo sapiens Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 10 15 Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Asn Tyr 20 25

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val 35 45 . . .

WO 02/02641 PCT/US01/19110 -

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Val Gly Leu Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Ser Gly 100 105 110

Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  $130 \ \ 140 \ \$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195  $\phantom{\bigg|}$  200  $\phantom{\bigg|}$  205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 958

<211> 257

<212> PRT

<213> Homo sapiens

<400> 958

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

10 15 1 . 5 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 90 85 Tyr Cys Thr Thr Ser Gln Ala His Tyr Asp Ile Leu Thr Gly Tyr Tyr . 105 Leu Trp Ser Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro 145 150 ... 155 Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly 165 170 175 Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro 180 185 Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn 195 200 205 Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$  240

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 245 250 255

Gly

<210> 959

<211> 248

<212> PRT

<213> Homo sapiens

<400> 959

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Asp Thr Ser Thr Tyr Tyr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Arg Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe  $50 \ \ 55 \ \ 60$ 

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Ser Tyr Asp Ile Leu Thr Gly Tyr Arg His Tyr Gly Met 100 \$105\$

Asp Leu Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu Thr

Gln Asp Pro Ala Val Ser Val Val Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg

180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 960

<211> 251

<212> PRT <213> Homo sapiens

<400> 960

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Ser Phe \$20\$

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Ala Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 961 <211> 251

<212> PRT

<213> Homo sapiens

· <400> 961

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  $20^{\circ}$  .

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$ \$40\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 962 <211> 251 <212> PRT <213> Homo sapiens Glu Val Gln Leu Val Gln Ser Gly Val Glu Val Lys Lys Pro Gly Ala 1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25

1143

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

40

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tvr Tvr Cvs Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu . 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 963 <211> 249

<212> PRT

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly

	1				5					10					15	
	Ser	Leu	Arg	Leu 20		Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Asn	Tyr
	Pro	Met	Thr 35	Trp	.Val	Arg	Gln	Ala 40	Pro	Gly	Arg	Gly	Leu 45	Glu	Trp	Val
	Ser	Thr 50	Ile	Thr	qaA	Ser	Gly 55	Gly	Asn	Thr	Tyr	Tyr 60	Ala	Asp	Ser	Val
	Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asp	Thr	Leu	Phe 80
	Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Ile	Tyr	Tyr 95	Cys
	Ala	Lys	Asp	Arg 100	Glu	Tyr	Asp	Leu	Leu 105	Thr	Gly	Tyr	Tyr	Leu 110	His	Ála
	Phe	Asp	Met 115	Trp	Gly	Arg	Gly	Thr 120	Leu	Val	Thr	Val	Ser 125	Ser	Gly	Gly
-	Gly	Gly 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Gly	Gly	Gly	Gly 140	ser	Ser	Glu	Leu
	Thr 145	Gln	Asp	Pro	Ala	Val 150	Ser	Val	Ala	Leu	Gly 155		Thr	Val	Arg	Ile 160
	Thr	Cys	Gln	Gly	Asp 165	Ser	Leu	Arg	Ser	Tyr 170		Ala	Ser	Trp	Tyr 175	Gln
	Gln	Lys	Pro	Gly 180	Gln	Ala	Pro	Val	Leu 185	Val	Ile	Tyr	Gly	Lys 190	Asn	Asn
	Arg	Pro	Ser 195	Gly	Ile	Pro	Asp	Arg 200	Phe	Ser	Gly	Ser	Ser 205	Ser	Gly	Asn
	Thr	Ala 210	Ser	Leu	Thr	Ile	Thr 215	Gly	Ala	Gln	Ala	Glu 220	Asp	Glu	Ala	Asp
	Tyr 225		Cys	Asn	Ser	Arg 230	Asp	Ser	Ser	Gly	Asn 235	His	Val	Val	Phe	Gly 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 964 <211> 250 <212> PRT

<213> Homo sapiens

<400> 964

Gln Val Gln Leu Gln Gln Ser Arg Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  $\phantom{-}20\phantom{+}25\phantom{+}$ 

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr 65 70 75 . 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp 100 \$105\$

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 \$150\$

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser

195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 965.

<211> 248 <212> PRT

<213> Homo sapiens

<400> 965

Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Val Lys Lys Thr Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe

Gln Gly Arg Ile Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155. 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Asn Arg 180  $$185\mbox{ }$ 

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210  $\phantom{\bigg|}215\phantom{\bigg|}$  220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 966 <211> 253

<212> PRT

<213> Homo sapiens

<400> 966

Glu Val Gln Leu Gln Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala 1. 5 10 15

Ser Val Arg Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Thr Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Ala Tyr Tyr Gly Thr Thr Asn Tyr Ala Gln Asn Leu 50

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Asn Thr Val Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 \$170\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 967

<211> 248 <212> PRT

<213> Homo sapiens

-400- 967

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asp Tyr 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp His Tyr Asp Ile Leu Thr Gly Leu Tyr Tyr Tyr Gly Met 100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 \$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<21.0> 968

<211> 251

<212> PRT

<213> Homo sapiens

<400> 968

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 0.05$ 

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 · 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu

Gly Ser Arg Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Gly Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 969

<211> 247 <212> PRT

<213> Homo sapiens

<400> 969

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val 1 5 10 15

Lys Val Ser Cys Lys Ala Ser Arg Gly Ser Phe Ser Lys Tyr Gly Phe 20 25 30

Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly 35 40 45

Ile Val Pro Ile Phe Gly Ala Thr Asn Tyr Ala Lys Lys Phe Lys Gly 50 55 60

Arg Val Thr Ile Thr Ala Asp Asp Thr Ser Thr Val Tyr Met Glu 65 70 75 80

Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Lys Gly Pro Leu Asp 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr 130 135 140

Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val Thr Ile 145  $$150\$ 

Thr Cys arg Ala Ser Glu Gly Ile Tyr His Tr $\hat{p}$  Leu Ala Trp Tyr Gln 165 170 . 175

Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser Ser 180 185 190

Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr 195 200 205

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr

210 215 220

Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly 225 230 235

Thr Lys Leu Glu Ile Lys Arg 245

<210> 970

<211> 248 <212> PRT

<213> Homo sapiens

<400> 970

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Asn Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Val Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe  $50 \ \ 60$ 

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Thr Thr Ala Tyr  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000} 80$ 

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Thr Ala Tyr Tyr Asp Asn Leu Thr Gly Phe Leu Pro Tyr Gly Met 100 \$100\$

Gly Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 971 <211> 254 <212> PRT

<213> Homo sapiens

<400> 971

Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Glu 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Thr Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Gly Ser Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val $_{\mbox{50}}$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Lys Glu Gly Tyr Asp Ile Leu Thr Gly Tyr Phe Leu Asp Tyr Tyr 100 . 105 . 110

His Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115  $$120\$ 

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 130 \$135\$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  $_{165} \\$ 

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 \$180\$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 \$230\$

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 972 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 972

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala 1  $\phantom{\bigg|}$  15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ile Phe Ser Lys Tyr \$20\$

Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gln Gly Arg Leu Thr Ile Ser Lys Asp Thr Ser Ala Ser Val Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 160 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Glv Asn Thr Ala Ser Leu Thr Ile Ser Glv Leu Gln Ala Glu Asp GIu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 973 <211> 259 <212> PRT <213 > Homo sapiens <400> 973 Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Met Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 2.0 2.5

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

4.5

40

35

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

120

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala 145 \$150\$

Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn  $165 \ \ 170 \ \ \ 175$ 

Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala . 180 185 190

Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile  $210 \\ 215 \\ 220 \\$ 

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp 225 230 235 240

Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr \$245\$

Val Leu Gly

<210> 974

<211> 249 <212> PRT

<213> Homo sapiens

<400> 974

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr 20 25 30

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$90\$ 95

Ala Arg Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Arg Asp Pro Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  $\_$  115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 \$135\$

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 150 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp

210 215 220

Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 975

<211> 251 <212> PRT

<213> Homo sapiens

<400> 975

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$ . \$25\$ . \$30\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130  $$\rm 135$ 

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 976 <211> 251 <212> PRT <213> Homo sapiens <400> 976 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr 25 20 Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 40

Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe

Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr 65 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 ext{ } 105 ext{ } 110$ 

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 . 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  $165 \\ 170 \\ 175$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu \$180\$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$ . \$200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 977 <211> 254

<212> PRT

<213> Homo sapiens

<400> 977

Gly Met Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $35\,$  .  $40\,$  45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 \$105\$

Gly Pro Leu Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Phe Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn \$165\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 \$200\$

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  $210 \ \ 215 \ \ \ 220$ 

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 978

<211> 251 <212> PRT

<213> Homo sapiens

<400> 978

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  $\phantom{-}20\phantom{+}25\phantom{+}25\phantom{+}$ 

Thr Met His Tro Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Tro Met

35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100  $$105\$ 

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu \$180\$ \$185\$ \$190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 979

<211> 251

<212> PRT

<213> Homo sapiens

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 15 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr 2.5 Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr 70 Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gin Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Pro Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp . 220 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 980

<211> 248 <212> PRT

<213> Homo sapiens

<400> 980

His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{\bigg|}$ 

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 . 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  $130 \\ {\rm 135} \\ {\rm 140} \\ {\rm 140}$ 

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 981

<211> 254 <212> PRT

<213> Homo sapiens

<400> 981

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Ala Arg Asp Arg Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Gly 100 105 110

His Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 185 180 Ile Tvr Glu Glv Ser Lvs Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 200 1.95 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 215 . 220 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 982 <211> 251 <212> PRT <213> Homo sapiens <400> 982 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly 5 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 55 60 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

1167

Ala Lys Asp Leu Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Thr 105 100 Ser Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 120 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 165 170 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 · 215 Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 230 235 Phe Gly Gly Gly Thr Lys Pro Thr Val Leu Gly 245 250 <210> 983 <211> 254 <212> PRT <213> Homo sapiens <400> 983 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

40 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Glu Gly Phe Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Pro

Gly Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  $130\,$ 

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145  $\phantom{0}$  150  $\phantom{0}$  155  $\phantom{0}$  160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180  $$185\$ 

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

<210> 984

<211> 248

<212> PRT <213> Homo sapiens

-400- 004

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $_{50}$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \,$   $105 \,$   $110 \,$ 

Asp Ile Trp Glý Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu Thr 130  $\,$  135

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165  $$170\$ 

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Tyr Asn Arg 180  $$185\$ 

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 \$200\$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 \$215\$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly

245

<210> 985 <211> 247 <212> PRT <213> Homo sapiens

<400> 985 Gln Val Gln Arg Val Val Lys Pro Ser Gln Thr Leu Ser Leu Thr Cys 10 1

Ala Ile Ser Glv Asp Ser Val Ser Ser Thr Ser Ala Ala Trp Asn Trp 20 25

Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly Arg Thr Tyr 35 4.0

Tyr Lys Ser Gly Trp His Tyr Asp Tyr Ala Pro Ser Val Lys Ser Arg 55 60

Ile Ser Ile Lys Pro Asp Thr Ser Glu Asn His Phe Ser Leu Gln Leu 75 70

Asn Ser Val Ile Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu 90

Gly Tyr Asp Ile Leu Thr Gly Tyr Ser Lys Phe Leu Asp Tyr Trp Gly 105

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly 115

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 130 135

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln 170 165

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 200 195

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly

<210> 986

<211> 251

<212> PRT

<213> Homo sapiens

<400> 986

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \,$   $\,$   $105 \,$   $\,$   $\,$   $110 \,$ 

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Glu Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 987 <211> 248 <212> PRT <213> Homo sapiens <400> 987 . Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 95 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

- Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu Thr
- Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 . \$150\$
- Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 175 \$175\$
- Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Ile Arg  $180 \,$   $185 \,$   $190 \,$
- Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195  $\phantom{\bigg|}200\phantom{\bigg|}$
- Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220
- Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}225\phantom{\bigg|}235\phantom{\bigg|}$
- Gly Thr Lys Leu Thr Val Leu Gly

<210> 988

<211> 252

<212> PRT

<213> Homo sapiens

<400> 988

- Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15
- Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
- Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 . 45
- Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val $_{50}$
- Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val

Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser Arg 225 230 230 235

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 989

<211> 253 <212> PRT

<213> Homo sapiens

<400> 989
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Arg Ala Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe Tyr 100 '105 110

Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$ 

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180  $$185\ \ \,$  190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 990

<211> 251 <212> PRT <213> Homo sapiens

<400> 990

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 1 . 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser  $20 \\ 25 \\ 30$ 

Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu 35 - 40 45

Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser  $50 \ \ 60$ 

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  $85 \ \ 90 \ \ 95$ 

Cys Ala Arg Phe Arg Tyr Asp Ile Leu Thr Ser Tyr Tyr Tyr Gly Met 100 \$105\$

Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165  $\phantom{0}170$   $\phantom{0}175$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Fhe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 991 <211> 251

<212> PRT <213> Homo sapiens

<400> 991

Trp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Thr Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \,$   $105 \,$   $110 \,$ 

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 992 <211> 251

<212> PRT

<213> Homo sapiens

<400> 992

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{0}$  10  $\phantom{0}$  15

Ser Leu Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Gly Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Ala Gly Asn Gly Tyr Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100\,$   $^{\circ}$  105  $\,$  110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu . 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 993

<211> 250

<212> PRT <213> Homo sapiens

<400> 993

Gln Val Gln Leu Gln Gln Trp Gly Ala Arg Val Val Lys Pro Ser Glu 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr 20 25 30

Gln Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  $35 \ \ 40 \ \ 45$ 

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Asn 50 55 60

Ser Arg Val Thr Ile Ser Gln Asp Thr Ser Asn Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala

1180

85 90 95

Arg Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr His His 100 105 110

Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145  $$150\$ 

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly
195 200 . 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 225 230 230

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 994

<211> 253

<212> PRT <213> Homo sapiens

<220>

<221> Site

-2225 (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994

Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Ser Ser

20 25 30

Thr Val Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Met Leu Gly Ile Val Lys Tyr Ala Xaa Lys Phe  $_{\rm 50}$   $_{\rm 60}$ 

Gln Gly Arg Val Met Ile Thr Ala Asp Lys Ser Met Thr Ser Ala Tyr 65 70 75 80

Ile Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly His Tyr Asp Ile Leu Thr Gly Tyr Asp Asp Tyr Tyr Tyr 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser 130 \$135\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180  $$185\$ 

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 995

<211> 243 <212> PRT

<213> Homo sapiens

<400> 995

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn  $20 \\ 25 \\ 30$ 

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Ile Tyr Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Ser His Asp Ile Leu Thr Gly Phe Asp Tyr Trp Gly Arg Gly Thr Met 100  $$100\,$ 

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly 130 140

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp 145  $\,$  150  $\,$  155  $\,$  160

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys \$165\$

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser

1183

210 215 220

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Val Leu Glv

<210> 996

<211> 247

<212> PRT <213> Homo sapiens

<400> 996

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val $_{50}$   $_{60}$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser Gly Tyr Asp Ile Leu Thr Gly Tyr Leu Tyr Gly Met Asp  $100 \,$   $105 \,$   $110 \,$ 

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$ . \$170\$ 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 180  $$185\$ 

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 \$215\$

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly

<210> 997 <211> 251 <212> PRT

<213> Homo sapiens

<400> 997

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp His  $20 \\ 25 \\ 30$ 

Tyr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Gly Arg Ala 'Arg Asn Lys Ala Asn Ser Tyr Thr Ile Glu Tyr Ala Ala 50 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser 65 70 75 80

Leu Phe Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Ala Arg Ala Pro Tyr Asp Ile Leu Thr Gly Tyr Ser Asp Tyr  $100 \hspace{1cm} 105 \hspace{1cm} 110$ 

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115  $$120\$ 

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser 130 135 Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Ser Gly Gln Thr Val 145 150 155 Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Tro 170 165 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys . 185 180 Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 200 Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 998 <211> 251 <212> PRT <213> Homo sapiens <400> 998 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr 20 Pro Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met 3.5 40 Gly Trp Ile Asp Ser Ala Lys Gly His Ile Lys Tyr Ser Gln Lys Phe 50 Gln Gly Arg Leu Thr Leu Thr Arg Asp Thr Ser Ala Asn Thr Ala Tyr 75 7.0

Met Glu Leu Thr Ser Leu Thr Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 100 \\ 110$ 

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  $$185\ \ \, $$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210  $\phantom{\bigg|}215\phantom{\bigg|}$  220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 999

<211> 247

<212> PRT <213> Homo sapiens

<400> 999

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Arg Tyr \$20\$

Ser Thr His Trp Val Arg Gln Ala Pro Gly Gln Arg Phe Glu Trp Met

35 40 45

Gly Trp Ile Asn Gly Gly Asn Gly Asn Thr Lys Tyr Ser Gln Thr Phe 50 60

Gln Gly Arg Ile Thr Ile Thr Arg Asp Thr Pro Ala Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Gly Val Asp  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$ 

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Asp Ser Leu Lys Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro  $180 \ \ \, 185 \ \ \, 190$ 

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 220

Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1000

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1000
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Glu Val Gln Pro Gly Arg
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg  $_{\rm 50}$ 

Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 \$105\$

Arg Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 \$135\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  $_{\rm 165}$   $_{\rm 170}$   $_{\rm 175}$ 

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr

225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Asp \$245\$

<210> 1001 <211> 254

<212> PRT <213> Homo sapiens

<400> 1001

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Asn Phe 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Asn Thr Val Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Ser Met Thr Arg Glu Thr Ser Thr Ser Thr Val Tyr  $\phantom{-}65\phantom{+}70\phantom{+}70\phantom{+}75\phantom{+}80\phantom{+}$ 

Met Glu Met Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Gly Phe Tyr Tyr Tyr 100 \$105\$

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn \$165\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Arg

<210> 1002

<211> 246

<212> PRT <213> Homo sapiens

<400> 1002

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Arg Gly Ser Gly Ser Ala Val Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met As<br/>n Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 95 90 95

Ala Pro Ala Tyr Tyr Asp Ile Leu Thr Gly Leu Asp Tyr Trp Gly Arg

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser 130 135 140

1191

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr 145 150 155 160

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His  $165 \ \ 170 \ \ \ 175$ 

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro 180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Lys Leu Thr Val Leu Gly

<210> 1003 <211> 253

<212> PRT

<213> Homo sapiens

<400> 1003

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $35 \ \ 40 \ \ 45$ 

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  $65 \ 70 \ 75 \ 80$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gln Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile His Tyr
100 105 110

- Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly
- Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140
- Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160
- Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175
- Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190
- Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205
- Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210  $\phantom{\bigg|}$  220
- Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$
- Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250
- <210> 1004
- <211> 248
- <212> PRT
- <213> Homo sapiens
- <400> 1004
- Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15
- Ser Arg Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr His
- Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
- Ala Ala Ile Ser Phe Asp Glv Ser Glu Lys Tyr Tyr Ala Asp Ser Val

1193

50 55 6

Gln Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gln Val Asp Leu Leu Met Asp His Asn Tyr Tyr Met 100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Val Met 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr 165 170 175

Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser 180 185 190

Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly 195 \$200\$

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala 210 215 220

Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1005

<211> 251

<212> PRT <213> Homo sapiens

<400> 1005

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser	Val	Lys	Ile 20	Ser	Сув	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Val 30	Asn	Tyı
Bly	Val	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Arg	Leu 45	Glu	Trp	Met
ly	Trp 50	Ile	Asn	Ala	Glý	Asn 55	Gly	Asn	Thr	Lys	Tyr 60	Ser	Gln	Lys	Phe
91n 65	Gly	Arg	Val	Thr	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Ser	Thr	Ala	Tyr 80
1et	Glu	Leu	Ser	Arg 85	Leu	Thr	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
la	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Arg	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Эly	Ser 130	Gly	Gly	Gly		Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
hr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
rp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Зly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
3lu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
he	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly					

1195

245 250

<210> 1006 <211> 253

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1006

Gly Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Val Ser Ser Asn  $20 \\ 25 \\ 30$ 

His Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Gly Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 \$105\$

Arg Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1007

<211> 253

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (209) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1007

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val  $_{\rm 50}$   $_{\rm 60}$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Asp Gln Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile His Tyr 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Xaa Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Xaa Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1008

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1008
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$

Gly Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 . 45

Gly Ser Ile Ile Pro Ser Phe Ala Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Arg Gly Arg Leu Thr Ile Thr Ala Asp Glu Ser Thr Thr Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Arg Thr Lys Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Met 105 100 110 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Gln Met 130 Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Lys Val Thr 145 150 155 160 Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr 165 170 175 Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser 180 185 190 Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly 200 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala 210 215 220 Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly 230 235 Gly Thr Lys Leu Glu Ile Lys Arg 245 <210> 1009 <211> 249 <212> PRT <213> Homo sapiens <400> 1009 Glm Val Glm Leu Val Glm Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Val Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arq Gln Ala Pro Gly Arq Gly Leu Glu Trp Met Gly 4.0 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 100 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 150 155 Ser Cys Ser Gly Ser Tyr Ser Asn Ile Gly Thr Asn Asp Val Phe Trp 170 Tyr Gln Gln Leu Pro Gly Thr Ala Pro Gln Leu Leu Ile Tyr Arq Asn 185 Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asn Asp Arg Gln Ile Val Phe Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Gly Thr Lys Leu Thr Val Ile Gly

<210> 1010 <211> 251

<212> PRT <213> Homo sapiens <400> 1010 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 15 Ser Val Lys Val Ser Cys Arg Ala Ser Leu Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 . 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 110 100 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Ala Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Tyr Asp Tyr Val Ser 170

Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp 180 180 190

Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Pro Thr Tyr Val 225 \$230\$ \$235\$ \$240\$ .

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1011 <211> 251 <212> PRT

<213> Homo sapiens

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35  $\phantom{-}40\phantom{0}$  45 .

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  $50 \ \ 55 \ \ 60$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000} 75$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn 180 185 190

Asn Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Val Ala Trp Asp Asp Ser Leu Asn Gly Trp Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1012

<211> 255

<212> PRT <213> Homo sapiens

<400> 1012

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Ser Arg Tyr 20 25 30

Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Arg Leu 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Phe 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Thr Thr Asp Arg Phe Gly Ala Lys Asp Val Thr Ser Arg Trp Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser

1203

130 135 140

Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val 145 150 155 160

Thr Val Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Gly 165 170 175

Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile 180 185 190

Tyr Gly Asn Thr Asn Arg Leu Ser Gly Val Pro Asp Arg Phe Ser Gly 195  $\phantom{-}$  200  $\phantom{-}$  205

Ser Gln Ser Gly Ser Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala 210 220

Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser 225 230 235 240

Gly Ser Phe Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  $245 \hspace{1cm} 250 \hspace{1cm} 255 \hspace{1cm}$ 

<210> 1013

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1013 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Ala Leu 135 130 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Tyr Asp Tyr Val Ser 165 170 Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp 180 . 185 Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Pro Thr Tyr Val 225 230 235 240 Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1014 <211> 250 <212> PRT <213> Homo sapiens

<400> 1014 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 . 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50  $\,$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $\overline{65}$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 \$105\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu 130 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 150 155

Ile Thr Cys Gln Gly Asp Met Phe Arg Asn Tyr Tyr Ala Thr Trp Tyr 165 170 175

Gln Gln Arg Pro Gly Gln Ala Pro Val Pro Val Leu Tyr Gly Gln Asn 180 185 190

Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Arg Ser Gly 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Lys Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210  $$\rm 215$ 

Asp Tyr Tyr Cys Gly Ser Arg Asp Ser Ser Gly Ser His Leu Leu Phe 225 230 235

Gly Gly Gly .Thr Lys Leu Thr Val Leu Gly 245

<210> 1015

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1015

Glu Val Gln Leu Val Glu Thr Gly Gly Gly Val Val Gln Pro Gly Gly 5 10 15 Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Thr Phe Ser Ser Tyr 25 3.0 20 Glv Met His Trp Val Arg Gln Ala Pro Glv Lys Glv Leu Glu Trp Met 35 40 Ala Val Ile Ser Ser Asp Gly Thr Lys Arg Tyr Tyr Ala Asp Ser Val 55 60 Gln Glv Arg Leu Thr Ile Ser Arg Asp Asn Phe Val Lys Thr Leu Ser 70 Leu Glu Met His Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Lys Asp Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe 100 105 His His Gly Val Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly 145 150 155 Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser 170 Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu 180 185 Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe 195 200 Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Ala Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Gly Ser

Leu Ser Gly Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250  $\cdot\cdot\cdot$  255

<210> 1016

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1016

Gln Val Gin Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  $20 \ 25 \ 30 \ \cdot$ 

The Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 \$50\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  $100 \qquad 105 \qquad 110$ 

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130  $\phantom{000}$  135  $\phantom{000}$  140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 225

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1017

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1017

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Ser Tyr

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$ 

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Ile Ile Ser

1209

145 150 155 160

Cys Ser Gly Ser Ala Ser Asn Ile Ala Ala Asn Pro Val Asn Trp Tyr \$165\$ . \$170\$

Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn 180  $$185\$ 

Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly 195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210  $\,$  225  $\,$  220  $\,$ 

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Ala Val Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1018

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1018

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $$10\,$ 

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  $20 \\ 25 \\ 30$ 

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85  $\phantom{\bigg|}90\phantom{\bigg|}$  95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Ser Ile 145 150 155 160

Thr Cys Ser Gly Asp Asn Leu Gly Asn Lys Tyr Val Tyr Trp Tyr Gln  $_{165}$   $_{170}$   $_{170}$ 

Gln Lys Ala Gly Gln Ser Pro Val Leu Val Ile Tyr Gln Asp Thr Lys 180 \$180\$

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn 195 \$200\$

Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Thr Met Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Ala Trp Asp Asn Asn Ile Val Val Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}240\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1019

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1019

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 7.5 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 85 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu 135 140 130 Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys Thr Ala Arq Met 145 150 155 Thr Cys Gly Gly Asp Asn Ile Gly Asn Lys Gly Val His Trp Tyr Gln 165 170 175 Gln Lys Pro Gly Gln Ala Pro Val Val Val Phe Tyr Tyr Gly Arg Asp 185 190 180 Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205 Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp 210 215 220 Tyr Phe Cys Gln Val Trp Asp Ser Ser Ser Asp His Ala Val Phe Gly 235 225 230 Gly Gly Thr Gln Leu Thr Val Leu Ser

245

<210> 1020

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1020

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 65 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 95 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110 Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 135 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 160 Ile Ser Cys Ser Gly Ser Arg Ser Asp Ile Gly Asn Asn Asp Val Asn 165 170 175 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser 180 185 190 Ser Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Thr Ser Ala Ser Leu Ala Tle Ser Gly Leu Gln Ser Glu Asp 215 210 Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Lys Gly Val 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

1,213

<210> 1021 <211> 252 <212> PRT <213> Homo sapiens <400> 1021 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 2.0 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 9.0 Arg Glu Leu Glv Leu Ser Ile Val Glv Ala Thr Thr Glv Ala Leu Asp 100 105 Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu 135 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Ile Tyr 165 170

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Gly Arg
185 190

Tyr Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Ser Gly Trp 225 230 235 240

Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser \$245\$

<210> 1022

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1022

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \ 90 \ 95$ 

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val  $100 \\ 105 \\ 110$ 

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $$150\$ 

Thr Cys Gln Gly Asp Ser Leu Arg Lys Tyr Tyr Ala Ser Trp Tyr His

165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr Gly Glu Asn Asn 180 \$190\$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 \$215\$

Tyr Tyr Cys Tyr Ser Arg Asp Ser Ile Ser Asp His Leu Glu Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1023

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1023

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Phe Asn Trp  $\dot{V}$ al Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 . 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  $_{65}$   $\phantom{0}70$   $\phantom{0}75$   $\phantom{0}75$ 

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115  $$120^{\circ}$$ 

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Leu Ser 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$ 

Cys Thr Gly Ser Arg Ser Asn Leu Gly Ala Gly Tyr Asp .Val Asn Trp \$155\$ \$170\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190

Thr Asn Arg Pro Ser Gly Val Gly Glu Arg Phe Ser Gly Ser Lys Ser 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Gly Thr Ser Ala Ser Leu Val Ile Thr Gly Leu Gln Ala Gly Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser His Ser Ala Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}225\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245  $$\rm 250$ 

<210> 1024

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1024

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Leu	Ser	İle	Val	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Arg	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	ser	Ala 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Pro	ser	Val 150	Ser	Val	Ala	Pro	Gly 155	Gln	Thr	Ala	Arg	Ile 160
Thr	Cys	Gly	Gly	Asn 165	Asn	Ile	Glu	Ser	Lys 170	Ser	Val	His	Trp	Tyr 175	Gln
Gln	Lys	Pro	Gly 180	Gln	Ala	Pro	Val	Leu 185	Val	Val	Tyr		Asp 190	Thr	Asp
Arg	Pro	Ser 195	Gly	Ile	Pro	Glu	Arg 200	Phe	Ser	Gly	Ser	Asn 205	Ser	Gly	Ser
Ser	Ala 210		Leu	Ser	Île	Ser 215	Arg	Val	Glu	Val	Gly 220	Asp	Glu	Ala	Asp
Tyr 225	Tyr	Cys	Leu	Val	Trp 230	Glu	Thr	Thr	Asn	His 235	His	Tyr	Val	Phe	Gly 240
Thr	Gly	Thr	Lys	Val 245	Thr	Val	Leu	Gly							
<210> 1025 <211> 259 <212> PRT <213> Homo sapiens															
	0> 1 Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	۷al	Lys	Val	Ser	Cys	Arg	Ala	Ser	Gly	Gly	Ser	Phe	Ile	Asp	Asp

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Arg Asp Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 \$105\$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 \$120\$ \$125\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser Asn Ile 165 170 175

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180  $$185\$ 

Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 \$200\$

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210  $$\rm 220$$ 

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Arg Asp 225 230 235 240

Asp Arg Leu Asn Ala His Val Val Phe Gly Gly Gly Thr Lys Val Thr 245 250 255

Val Leu Gly

<210> 1026 <211> 256 <212> PRT <213> Homo sapiens <400> 1026 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 . 10 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 25 Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 55 Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 70 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 105 110 100 Ser Tyr His Ser Ala Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr 115 120 125 -Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140 Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 150 155 Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 1.70

Lys Tyr Ser Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 180 185 190

Phe Val Met Tyr Ala Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 195 200 205

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 210 215

Ser Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Arg Asn Val 225 230 235 240

Ser Gly Lys Arg Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 1027

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1027

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe
50 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130

Gly Ser Ala Leu Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser 145 \$150\$

Ala Ser Val Gly Asp Arg Val Arg Met Thr Cys Arg Thr Ser Gln Thr

165 170 175

Ile Asn Lys Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro 180 \$180\$

Lys Leu Leu Ile Phe Ala Ala Ser Ser Leu Tyr Ser Gly Val Pro Ser

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser 210 215 220

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr 225 \$230\$

Lys Thr Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg

<210> 1028

<211> 257 <212> PRT

<213> Homo sapiens

<400> 1028

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp  $20 \\ 25 \\ 30$ 

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys  $85 \hspace{0.5cm} 90 \hspace{0.5cm} . \hspace{0.5cm} 95$ 

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 \$150\$

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 165 170 175

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 180  $$185\ _{\odot}$$  190

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg \$195\$

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly  $210 \\ 215 \\ 220$ 

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu \$245\$

Gly

<210> 1029

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1029

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp
20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser

Ser Tyr Arg Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 \$120\$ \$125\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 \$135\$

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Ala Ala 145  $$150\ \ \, 155\ \ \, 160\ \cdot\,$ 

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile 165 170 175

Gly Lys Ser Tyr Val Ser Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro  $180\ .$   $185\ .$  190

Lys Leu Leu Met Tyr Glu Asn Ser Glu Arg Pro Ser Gly Ile Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210  $\,$  215  $\,$  220  $\,$ 

Gly Val Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$ 

Ser Ser Leu Arg Ala Gly Val Phe Gly Gly Gly Thr Lys Val Thr Val  $\phantom{0}$  245  $\phantom{0}$  255

Leu Glv

<210> 1030

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1030

Gln 1	Val	Gln	Leu	Val 5	Gln	ser	Gly	Ala	Glu 10	Val	Arg	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Gly	Ser	Phe	Ser 30	Ser	His
Val	Phe	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Val
Gly	Gly 50	Ile	Thr	Pro	Lys	Phe 55	Ala	Thr	Pro	Asn	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	His	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Arg	Thr	Val	Phe 80
Met	Asp	Leu	Ser	Gly 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Tyr 100	Asp	Ser	Ser	Ala	Phe 105	Arg	Ala	Phe	Asp	Ile 110	Trp	Gly
Arg	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser	Gly	Gly	Gly	Gly 125	Ser	Gly	Gly
Gly	Gly 130	Ser	Gly	ĞŢĀ	Gly	Gly 135	Ser	Ala	Leu	Ser	Tyr 140	Glu	Leu	Thr	Gln
Pro 145	Pro	Ser	Ala	Ser	Gly 150	Thr	Pro	Gly	Gln	Ala 155	Val	Ala	Val	Ser	Cys 160
Ser	Gly	Thr	Ser	Ser 165	Asn	Thr	Gly	Lys	Tyr 170	Gly	Val	Lys	Trp	Tyr 175	Gln
Gln	Leu	Pro	Gly 180	Met	Ala	Pro	Lys	Leu 185	Leu	Ile	Tyr	Ser	Asn 190	Ser	Gln
Arg	Pro	Leu 195	Gly	Val	Pro	Asp	Arg 200	Phe	Ser	Gly	Ser	Lys 205	Ser	Gly	Thr
ser	Ala 210	Ser	Leu	Ala	Ile	Ser 215	Asp	Leu	Arg	Ser	Glu 220	Asp	Glu	Ala	Asp
Tyr 225		Cys	Gln	Thr	Trp 230	Asp	Asp	Thr	Leu	Lys 235	Ser	Asn	Ile	Phe	Gly 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1031 <211> 248

<212> PRT

<213> Homo sapiens

<400> 1031

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1  $\phantom{-}$  10  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro 130 135 140

Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr 145 150 155 160

Gly Ser Ser Ser Asn Ile Gly Ala Asn Tyr Asp Val Gln Trp Tyr Gln
165 170 175

Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Asn Asn 180  $$185\$ 

Arg Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Thr

Ser Ala Ser Leu Val Ile Thr Gly Leu Gln Ser Glu Asp Glu Ala Asp 210 215 220

Tyr Asn Cys Gln Ser Tyr Asp Thr Gly Leu Gly Glu Val Phe Gly Gly 225 230 235

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1032

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1032

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $\phantom{\bigg|}$  15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala

145 150 155 160

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile 165 \$170\$

Gly Gly Gly Phe Asp Ala His Trp Tyr Arg Gln Val Pro Gly Arg Ala 180 185 190

Pro Lys Leu Leu Ile Phe Gly Asn Thr Asp Arg Pro Ser Gly Val Pro

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Val Ile 210 \$215\$

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ala Tyr 225  $230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$ 

Asp Ser Arg Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr 245 250 255

Val Leu Gly

<210> 1033

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1033

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Ser Gly Ser

Ser Val Lys Val Ser Cys Arg Thr Ser Gly Gly Ala Phe Ser Asn Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Gly Ile Ile Pro Val Phe Ser Thr Ala Asp Tyr Glu Glu Lys Phe 50 55 60

Glu Gly Arg Leu Lys Ile Thr Ala Asp Arg Leu Thr Ser Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Gly Gly Leu Arg His Val Thr Leu Phe Gly Thr Gly Thr Arg Gly

His Phe Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser 115  $$120\$ 

Ser Gly Gly Gly Giy Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser 130 140

Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly 145 \$150\$

Gln Ser Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala \$165\$

Gly Tyr Asp Val His Trp Tyr Arg Gln Leu Pro Arg Thr Ala Pro Lys  $180\,$ 

Leu Leu Ile Pro Gly Asn Asn Asn Gly Pro Ser Gly Val Ser Asp Arg 195 \$200\$

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly 210 215 220

Leu Arg Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Arg 225 \$230\$

Ser Leu Lys Ser Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu \$245\$ \$250\$ \$255\$

Gly

<210> 1034

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1034

Glu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 Glv Glv Ile Ile Pro Thr Phe Arg Lvs Thr Lvs Tvr Ala Gln Lvs Phe 55 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 120 Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 135 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala 145 150 Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Gly Ser Ser Asn Ile

165 170 175

Gly Ala Gly His Ala Val His Trp Tyr Gln Lys Leu Pro Gly Thr Ala 180 185 190

Pro Lys Val Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 \$215\$

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr 225 230 235 240

Asp Asn Ser Val Gly Gly Phe Val Phe Gly Thr Gly Thr Lys Leu Thr \$245\$

Val Leu Gly

<210> 1035 <211> 249 <212> PRT <213> Homo sapiens <400> 1035 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His 20 25 Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 105 Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly 115 120 125 Gly Gly Ser Gly Gly Gly Ser Ala Leu Glu Thr Thr Leu Thr Gln 130 ... 135 Ser Pro Gly Ser Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser 150 Cys Lys Ala Ser Gln Ser Val Ser Ser Asn Phe Leu Ala Trp Tyr Gln 170 . 175 Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser 185 180 Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr 200

Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val 215 Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Val Trp Val Thr Phe Glv 235 Gln Gly Thr Arg Leu Glu Ile Lys Arg 245 <210> 1036 <211> 260 <212> PRT <213> Homo sapiens <400> 1036 Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ser 1.0 Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 1.05 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Met Val Thr 115 120 Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 135 Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala

1232

150

145

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile 165 170 175

Trp Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Ala Ala 180 \$180\$

Pro Lys Leu Leu Ile Arg Gly Asn Gly Asn Arg Pro Ser Gly Val Pro  $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$ 

Asp Arg Phe Ser Val Ser Lys Ser Gly Tyr Ser Ala Ser Leu Ala Ile 210 \$215\$

Thr Gly Leu Gln Pro Ala Asp Glu Gly Val Tyr Tyr Cys Gln Ser Tyr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Asp Ser Ser Leu Ser Gly Ser Lys Val Phe Gly Gln Gly Thr Lys Val \$245\$ \$250\$

Thr Val Leu Gly

<210> 1037

<211> 248

<212> PRT <213> Homo sapiens

<400> 1037

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His  $20 \ 25 \ 30$ 

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly

100 105 110

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 130 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 \$150\$

Gly Ser Arg Ser Asn Ile Gly Glu Asn Tyr Val Tyr Trp Tyr Gln Gln 165 170 175

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg \$180\$

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Val Tyr 210 215 220

Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Arg 225 230 235

Gly Thr Lys Val Thr Val Leu Gly

<210> 1038

<211> 258

<212> PRT <213> Homo sapiens

vario nomo Bapier

<400> 1038 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe  $50 \ \ 60$ 

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 . 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile  $165 \\ 170 \\ 175$ 

Gly Ser Asn Thr Ile Thr Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro 180 \$180\$

Lys Leu Leu Ile Tyr Ser Thr Asn Gln Arg Pro Ala Gly Val Pro Asp

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210  $\,$  215  $\,$  220  $\,$ 

Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Val Thr Val \$245\$

Leu Glv

<210> 1039

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1039 Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser 1.0 Ser Val Lys Val Ser Cys Arg Thr Ser Gly Gly Thr Phe Arg Asn Tyr 20 25 Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 Glv Glv Val Ile Pro Ile Ser Ser Thr Ile Lvs Tvr Glv Gln Lvs Phe 50 55 60 Gln Asp Arg Leu Thr Ile Val Ala Asp Asp Leu Thr Asn Thr Thr Tyr 70 Met Glu Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Ala Ala Thr Thr Ser Gln Lys His Asn Lys Tyr Ala Tyr Tyr 100 105 Phe Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 135 Ala Leu Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr 155 Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu 170 His Ser Asn Gly Asn Ile Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly 180 -185 Gln Pro Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly 195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu-210 220

Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Ser Tyr Cys Met 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Glu Ala Leu His Thr Pro Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu \$245\$

Glu Ile Lys Arg 260

<210> 1040

<211> 248

<212> PRT <213> Homo sapiens

<400> 1040

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His  $\phantom{-}$  20  $\phantom{-}$  25  $\phantom{-}$  30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  $35 \ \ 40 \ \ 45 \ \ .$ 

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{0.25in} 90 \hspace{0.25in} 95$ 

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 \$100\$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 \$120\$

Gly Gly Ser Gly Gly Gly Ser Ala Leu Pro Val Leu Thr Gln Pro 130 135 140 .

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Ser Ile Ser Cys Ser 145 150 150

Gly Ser Gly Ser Asn Ile Gly Ser Lys Pro Val Asn Trp Tyr Gln Gln
165 170 175

Leu Pro Gly Thr Val Pro Lys Leu Ile Ile Tyr Ser Ser Asn Lys Arg 180  $$185\$ 

Pro Ser Glu Val Ala Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser

Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Glu Tyr 210 215 . 220

Tyr Cys Ala Ser Trp Asp Asp Arg Leu Asn Gly Trp Met Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1041

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1041

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp \$20\$

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$ \$40\$ \$45\$

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50  $\cdot$   $\,$  55  $\,$  60

arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr  $$^{\circ}$$  115 \$120\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Glu Ser Asn Ile \$165\$

Gly Ala Gly Tyr Asp Val His Trp Tyr Leu Gln Leu Pro Gly Ala Ala 180 185 190

Pro Lys Leu Leu Ile Tyr Gly Asn Lys Tyr Arg Ser Ser Gly Val Pro \$195\$

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Arg Val Glu Asp Glu Ala Glu Tyr Val Cys Gln Ser Tyr 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Asp Lys Ser Leu Ser Gly Tyr Val Phe Gly Pro Gly Thr Lys Val Thr 245 250 255

Val Leu Gly

<210> 1042 <211> 258

<212> PRT

<213> Homo sapiens

<400> 1042

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Ser Lys Pro Gly Ser 1  $^{\circ}$  5  $^{\circ}$  10  $^{\circ}$  15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Leu Ile Asp Tyr 20 25 30

Ser Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Val Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe

65 70 75 80
Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys

95 90 95

Ala Lys Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr \$115\$ \$120\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155 160

Pro Gly Gln Arg Val Thr Ile Arg Cys Ser Gly Ser Ser Ser Asn Ile 165 170 175

Gly Ser Asn Phe Val Phe Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 185 190

Lys Val Leu Ile Thr Arg Asn Asn Lys Arg Pro Ser Gly Val Pro Asp 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210  $\,$  215  $\,$  220  $\,$ 

Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr His Cys Val Ala Trp Asp 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Asp Arg Leu Arg Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val \$245\$ \$250\$ Thr Lys Val \$255\$

Leu Glv

<210> 1043 <211> 259

<212> PRT <213> Homo sapiens

<400> 1043 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50  $\,$  55 .  $\,$  60  $\,$ 

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 100  $$105\$ 

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr 115 \$120\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Glu Ala 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile 165 170 175

Gly Ala Gly Tyr Asp Val His Trp Tyr Lys Gln Leu Pro Gly Thr Ala 180  $$185\$ 

Pro Lys Leu Leu Ile Phe Asp Thr Asn Asn Arg Pro Ser Gly Val Pro 195  $\phantom{\bigg|}$  200  $\phantom{\bigg|}$  205

Ala Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ala Leu Ala Ile 210 215 220

Thr Gly Leu Gln Ala Gly Asp Glu Ala Tyr Tyr Tyr Cys Gln Ser Tyr 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Asp Leu Thr Phe Ser Gly Ser Val Phe Gly Thr Gly Thr Lys Val Thr

245 250 255

Val Leu Gly

<210> 1044 <211> 253

<211> 253 <212> PRT <213> Homo sapiens

allow bupies

<400> 1044

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Thr Leu  $\cdot$  1 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met  $20 \\ 25 \\ 30$ 

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110 '

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly \$115\$ \$120\$ \$125\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  $165 \\ 170 \\ . \\ 175$ 

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 225

Glu Asp Glu Ala Asp Tyr Tyr Tyr Ser Ser Tyr Thr Asn Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1045

<211> 254

<212> PRT <213> Homo sapiens

<400> 1045

Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr \$20\$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85  $\phantom{-}90$   $\phantom{-}$ 

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe 100 105 110

Gln Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 140

Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$ 

Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val \$165\$ \$170\$ \$175\$

His Trp Tyr Arg His Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr  $180 \,$ 

Gly Asn Ser His Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala 210  $$\rm 215$$ 

Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Asp Ser Ser Leu Ser 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Ala Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 1046

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1046

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His
20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100  $105\,$  110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 ... 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180\,$  .  $\,$  185  $\,$  190  $\,$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210  $$\rm 220$$ 

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Lys Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1047

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1047

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His  $20 \\ 25 \\ 30$ 

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  $35\ \ \, 40\ \ \, 45$ 

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe

50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} \cdot \hspace{1cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $$150\$ 

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  $210 \\ 215 \\ 220$ 

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1048

<211> 252

<212> PRT <213> Homo sapiens

<400> 1048

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 3.5 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 5.5 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Tyr Glu 135 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 150 Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asn 185 Asn Asp Gln Arg Pro Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Val Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Pro 225 230 235 240 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

245 250

<210> 1049 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1049

Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Phe Ile Ser Ser Arg \$20\$

Thr Ser Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Pro Glu 35 40 45

Trp Ile Gly Asn Ile Tyr Tyr Thr Gly Lys Thr Tyr Tyr Ser Pro Ser 50  $\,$  55  $\,$  60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Leu 65 70 75 80

Ser Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 95

Cys Ala Arg Ala Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Phe Tyr Phe  $100 \ \ 105 \ \ \ 110$ 

Asp Ser Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Glu Ile 130 135 140

Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg 145 150 155 160

Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp  $180 \,$   $\,$  185  $\,$  190  $\,$ 

Ala Ser Asn Arg Ala Thr Gly Île Pro Ala Arg Phe Ser Gly Ser Gly 195 200 205

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp 210 215 220

Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Phe Leu Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 245 250

<210> 1050

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1050

Gly Val Gln Leu Gln Gln Trp Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Ser Tyr \$20\$ \$25\$ \$30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35  $^{\rm 40}$ 

Ala Val Val Ser Asp Asp Gly Arg Asn Lys Tyr Tyr Ala Glu Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ser Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 105 110

Gly Pro Leu Asp Asn Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser 130 140

Glu Leu Thr Gln Asp His Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 150 155

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Ala Lys 185

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 200

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 215

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1051

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1051 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
15 1 5

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 60 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165  $\phantom{0}$  170  $\phantom{0}$  175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  $\phantom{\bigg|}$  185  $\phantom{\bigg|}$  190  $\phantom{\bigg|}$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm} 205 \hspace{1.5cm}$ 

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Asn Asp Tyr Asn Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \\ 230 \\ 235 \\ 240$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1052

<211> 251

<212> PRT <213> Homo sapiens

<400> 1052

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe \$100\$ . \$105

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1053

<211> 251

<212> PRT <213> Homo sapiens

 $^{<400>}$  1053 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $^{~}$  5  $^{~}$  10  $^{~}$  . 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$ 

- Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe  $_{50}$
- Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  $65 \ 70 \ . \ 75 \ 80 \ .$
- Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95
- Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110
- Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$
- Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140
- Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$
- Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$ \$170\$
- Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180 \hspace{1cm} 185 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$
- Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205
- Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$
- Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1054

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1054

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly His Thr Phe Thr Ser Asp  $20 \ \ 25 \ \ \ 30$ 

His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile 100  $$105\$ 

Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Pro Val 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 135 140

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 145 150 155 160

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr  $\phantom{-}$  165  $\phantom{-}$  170  $\phantom{-}$  175

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val

Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 195 200 205

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 225 230 235 Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255 <210> 1055 <211> 251 <212> PRT <213> Homo sapiens <400> 1055 His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 1.05 Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile

150

145

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1056

<211> 255

<212> PRT <213> Homo sapiens

-

<400> 1056

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{0}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asp \$20\$

His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu 50 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 . 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile 100 \$105\$

Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val 115 120 125

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 . 135 Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 150 155 160 145 Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 170 165 Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 185 180 Ile Tyr Gly Glu Thr Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 200 195 Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 215 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 235 Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1057 <211> 251 <212> PRT <213> Homo sapiens <400> 1057 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Glv Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 75 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}$ 

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1058

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1058

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20  $\phantom{-}25\phantom{+}$ 

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met \$35\$

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 90 And Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Thr Gly Tyr Ser Phe Asp Gly Phe 110 115 Thr Val Ser Ser Gly Gly Gly 115 125 Thr Gly Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Val Leu 130 140 140 150 Fro Ala Ser Val Ser Gly Ser Pro Gly Gly Gly Ser Ile Thr Ile 150 155 Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 180 195 Cly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val	σтλ	50	ile	ASI	PIO	Per	55	261	SEL	IIII	ALG	60	AIA	GIII	Arg	rne
Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100  Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly		Gly	Arg	Val	Thr		Thr	Arg	Asp	Thr		Thr	Ser	Thr	Val	Tyr 80
Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 140 140 140 140 140 141 140 141 145 150 150 160 160 160 160 160 160 160 160 160 16	Met	Glu	Leu	Ser		Leu	Arg	Ser	Asp		Thr	Ala	Val	Tyr		Cys
115 120 125  Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 140  Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155  Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170  Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185  Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 200  Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Ala	Arg	Ala		Tyr	Asp	Pro	Leu		Gly	Tyr	Ser	Phe		Gly	Phe
130  135  140  Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 175  Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200  Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Asp	Ile		Gly	Lys	Gly	Thr		Val	Thr	Val	Ser		Gly	Gly	Gly
145 150 155 160  Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 170 Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 200 205  Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205  Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 125 220  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Gly		Gly	Gly	Gly	Gly		Gly	Gly	Gly	Gly		Gln	Ser	Val	Leu
Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200  Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly		Gln	Pro	Ala	Ser		Ser	Gly	Ser	Pro		Gln	Ser	Ile	Thr	Ile 160
Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 200 205  Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Ser	Cys	Thr	Gly		Ser	Ser	Asp	Val		Gly	Tyr	Asn	Tyr		Ser
Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Trp	Tyr	Gln		His	Pro	Gly	Lys		Pro	Lys	Leu	Met		Tyr	Glu
210 215 220  Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Gly	Ser		Arg	Pro	Ser	Gly		Ser	Asn	Arg	Phe		Gly	Ser	Lys
225 230 235 240  Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly	Ser		Asn	Thr	Ala	Ser		Thr	Ile	Ser	Gly		Gln	Ala	Glu	Asp
		Asp	Asp	Tyr	Tyr		Ser	Ser	Tyr	Thr		Arg	Ser	Thr	Arg	Val 240
	Phe	Gly	Gly			Lys	Leu	Thr	Val		Gly					

<sup>&</sup>lt;210> 1059 <211> 251 <212> PRT

<sup>&</sup>lt;213> Homo sapiens

<400> 1059 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Lys Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Arg Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 . 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1060

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1060

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His  $20 \\ 25 \\ 30$ 

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met \$35\$ \$40\$

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  $_{65}$   $\phantom{0}$  .  $\phantom{0}$  70  $\phantom{0}$  80

Met Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 \$105\$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  $165 \\ 170 \\ 175$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1061

<211> 251 <212> PRT

<213> Homo sapiens

Lys Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 3.5

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 1.85

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1062 <211> 251

<212> PRT <213> Homo sapiens

<400> 1062

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20

Thr Met His Trp Val Arq Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 85

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Pro Val Leu

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1063

<211> 251

<212> PRT <213> Homo sapiens

<400> 1063

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$ 

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe  $50 \ \ \, 60$ 

Gln Glv Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tvr

65 70 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arq Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 145 . 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 ... 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Glu 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1064 <211> 251 <212> PRT <213> Homo sapiens <400> 1064 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  $20 \\ 25 \\ 30$ 

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $_{50}$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 105 \\ 110$ 

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$ 

Tyr Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser . 165 170 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $_{\rm 180}$   $_{\rm 185}$   $_{\rm 190}$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1065 <211> 255 <212> PRT <213> Homo sapiens <400> 1065 Arg Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asp His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile 1.00 105 Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val 120 115 Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 135 140 Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 150 155 Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 170 165 Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 180 185 Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser

200

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 215 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 230 235 Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 250 <210> 1066 <211> 251 <212> PRT <213> Homo sapiens <400> 1066 His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10 Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 4.0 Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 8.5 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1067 <211> 251 <212> PRT <213> Homo sapiens <220> <221> Site <222> (195) <223> Kaa equals any of the naturally occurring L-amino acids Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 15 Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60 Gln Gly Arq Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 75 65 70

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Glv Ser Glv Glv Glv Ser Glv Glv Glv Glv Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 Gly Ser Xaa Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 235 230 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1068 <211> 251 <212> PRT <213> Homo sapiens <220> <221> Site <222> (31) <223> Xaa equals any of the naturally occurring L-amino acids Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr  $\phantom{-}20\phantom{+}25\phantom{+}$ 

Thr Met His Trp Val Arq Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 1.45

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 : 240

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1069 <211> 253

<212> PRT

<213> Homo sapiens

<400> 1069

Gly Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser 1 5 10 15

Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr Thr

Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly 35 40 45

Trp Val Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln  $_{50}$ 

Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met 65 70 75 80

Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala 85 90 95

Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Leu Asp  $100 \\ 105 \\ 110$ 

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr  $130\ \ \,$   $135\ \ \,$   $140\ \ \,$ 

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Ġlu Glu Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1070

<211> 251

<212> PRT <213> Homo sapiens

<220>

<221> Site

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

-400- 107

Xaa Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Thr Val Ser Cys Arg Ala Ser Gly Tyr Asn Phe Ile Thr Tyr

Gly Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Pro Gly Thr Gly Asn Thr Gly Ser Ser Gln Lys Phe 50 60

Asn His Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Thr Thr Ala Tyr  $_{65}$   $_{70}$   $_{-}$   $_{75}$   $_{80}$ 

Met Glu Met Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180 \,$   $185 \,$   $190 \,$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \\ 230 \\ 235 \\ 240$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1071

<211> 251

<212> PRT <213> Homo sapiens

<213> HOURO Bapie

<400> 1071

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65  $^{\prime\prime}$  70  $^{\prime\prime}$  75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 \$105\$

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly

115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Ser Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1072

<211> 251

<212> PRT <213> Homo sapiens

<400> 1072

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  $165 \\ 170 \\ 175$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1073 <211> 251 <212> PRT

<213> Homo sapiens

<400> 1073

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $35 \ \ \, 40 \ \ \, 45$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Thr Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 0.05$ 

Asp Ile Trp Gly Lys Gly.Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165  $$170\,$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  $$185\$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1074 <211> 251

<212> PRT <213> Homo sapiens

<400> 1074

Gin Val Gin Leu Gin Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Asn Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr \$20\$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $50 \ \ \, 55$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys \$85\$ 90  $^{\circ}$  95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe \$100\$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu
130 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$ \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 \$230\$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1075

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1075 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Met

1 5 10 15

Ser Leu Ile Val Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Val Leu Ser Tyr Asp Gly Asp Ash Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val

Gly Arg Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  $_{130}$   $_{135}$   $_{140}$ 

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205 .

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Asn Thr Thr Lys Ser 225 230. 235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  $245 \ \ \,$ 

<210> 1076

<211> 251

<212> PRT <213> Homo sapiens

<400> 1076

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe
50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 105 \\ 110$ 

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu

130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Arg Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$ 

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1077

<211> 251

<212> PRT <213> Homo sapiens

<400> 1077

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  $20~\cdot~\cdot~25~$ 

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Ala Asn Gly Asn Thr Lys His Ser Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 65  $\phantom{000}70\phantom{000}75\phantom{000}$  80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 . 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1078 <211> 251 <212> PRT <213> Homo sapiens <400> 1078 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 10 Ser Val Met Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$ 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230

Phe Gly Gly Gly Thr Lys Leu Thr Ile Leu Gly
245 250

<210> 1079 <211> 251 <212> PRT <213> Homo sapiens

<220>

<221> Site <222> (31) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> Site <222> (53) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> Site <222> (62) <223> Xaa equals any of the naturally occurring L-amino acids-<220> <221> Site <222> (68) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> Site <222> (76) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1079 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Ile Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr 20 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Xaa Gly Ser Gly Asp Thr Lys Tyr Ser Xaa Lys Phe 50 Gln Gly Arg Xaa Thr Ile Thr Lys Asp Thr Ser Xaa Ser Ala Thr Tyr 65 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 110 100 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu

1284

140

135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165  $$170\$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  $180 \,$   $185 \,$   $190 \,$ 

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys . 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 \$215\$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1080 <211> 251

<212> PRT <213> Homo saniens

<400> 1080

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Met Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His . 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met \$35\$

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe  $50\,$ 

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 100 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 125 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asn 210 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly . 245 <210> 1081 <211> 251 <212> PRT <213 > Homo sapiens Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 Ser Val Met Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 . 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 \$100\$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1082

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1082

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

10 15 Ser Val Ile Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arq Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

235

225

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1083

<211>.251 <212> PRT

<213> Homo sapiens

<400> 1083

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 105 \\ 110$ 

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile
145 150 150 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Asn Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
245 250

<210> 1084 <211> 251 <212> PRT

<213> Homo sapiens

. <400> 1084

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn His  $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$ 

Ser Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Arg Gly Gly Ser Asp Thr Gln Tyr Ser Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Asp Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \\ 0.05$ 

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145  $$150\ \ \, 155\ \ \, 160\ \ \,$ 

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1085

<211> 251

<212> PRT

<213> Homo sapiens

Gly Val Gin Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Met Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165  $$170\$ 

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  . 235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1086

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1086

Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{-}$  5  $\phantom{-}$  10  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 \$40\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50  $\,$  60  $\,$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 75 \_ Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 . 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 -Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1087 <211> 254 <212> PRT

<212> PRT <213> Homo sapiens

<400> 1087

Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr

20 25 30

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met

Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys . 85 90 95

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn \$165\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195  $200\,$  .  $205\,$ 

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 \$215\$

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Asn Thr Thr Arg Ser 225 230 230 235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1088

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1088

Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu 1 10 15

Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 50

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Glu Tyr Tyr Cys 85 90 95

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly  $100 \,$   $105 \,$   $\,$   $\,$   $110 \,$ 

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 . 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln

210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}$  235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1089

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1089

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly  $50 \ \ \, 55 \ \ \, 60$ 

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  $$165\ ^{\circ}$$  170  $$175\ ^{\circ}$$ 

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Lys Ser Thr 225 \$230\$ 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1090

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1090

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Phe Gly Gly Ser Phe Ser Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Gly Arg Ile Ile Pro Ile Val Ala Thr Pro Asn Tyr Ala Gln Arg Phe 50 55 60

Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe 65 70 . 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly
100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115  $^{\circ}$ 

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 150 150

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asn Gln Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ala Ser Trp Asp Asp Ser Pro Asn Gly Arg Val Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1091

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1091

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Ser Lys Ser Gly Thr Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

<210> 1092 <211> 253

<212> PRT <213> Homo sapiens

CZISZ HOMO BAJ

<400> 1092 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser

35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Tyr Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Thr Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110  $^{\circ}$ 

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly \$115\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 225 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1093

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1093 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 10 Arg Leu Ser Cys Ala Ser Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 70 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 120 125 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 185 180 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr

225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1094 <211> 253 <212> PRT <213> Homo sapiens

<400> 1094

Glm Val Glm Glm Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 . 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln  $_{\rm 65}$   $_{\rm 70}$   $_{\rm 75}$ 

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr His Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

. <210> 1095

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1095

Gln Val Gln Gln Ser Arg Ala Glu Ala Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Cys Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met  $20 \\ 25 \\ 30$ 

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Arg Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Tyr Ser Gln Asn Gly 50 60

Gln Phe Thr Ile Ser Arg Asp Asn Ala Thr Asn Ser Leu Tyr Leu Gln  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Glu Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Ser Arg Gly Thr Met Val Thr Val Ser Ser Gly \$125\$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  $^{130}$   $^{135}$ 

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$ \$170\$ \$175\$

Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195  $\phantom{\bigg|}$  200  $\phantom{\bigg|}$  205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 \$210\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1096 <211> 253

<212> PRT

<213> Homo sapiens

<400> 1096

Gln Val Gln Gln Ala Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser  $35 \ \ 40 \ \ 45$ 

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly  $50 \ \ \, 55 \ \ \, 60$ 

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100  $$105\$ 

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $\phantom{00}$  150  $\phantom{00}$  155  $\phantom{00}$  160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile , 180  $$185\$ 

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210  $\phantom{\bigg|}^{\prime\prime}$  215  $\phantom{\bigg|}$  220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}240\phantom{\bigg|}$ 

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1097

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1097 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met  $20 \\ 25 \\ 30$ 

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly

50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Gly Leu Gly 245 250 .

<210> 1098

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1098

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 Lle Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 50 60 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

75

70

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 . 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180  $$185\$ 

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 . .200 . .205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

245 250

<210> 1099 <211> 247

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1099

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  $35 \ \ 40 \ \ 45$ 

Gly Arg Ile Ile Pro Ile Val Ala Thr Pro Asn Tyr Ala Gln Arg Phe
50 55 60

Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly \$100\$

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 \$150\$

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Ile Trp Tyr Gln Arg Leu 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly
195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ala Ser Trp Asp Ala Ser Pro Asn Gly Arg Val Phe Gly Gly Cly 225  $\phantom{-}230\phantom{+}230\phantom{+}235\phantom{+}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1100 <211> 253 <212> PRT <213> Homo sapiens

<400> 1100
Leu Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu
1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45.

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50  $$\,^{50}$ 

arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 . 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125 .

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 \$170\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180  $$185\$ 

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 -220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1101

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1101

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35  $$40\$ 

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly  $50 \ \ 55 \ \ \ 60$ 

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 \$100\$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

- Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140
- Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145  $$150\$
- Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175
- Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190
- Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195  $\phantom{\bigg|}200\phantom{\bigg|}$  205
- Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  $210 \ \ 225 \ \ \ 220 \ \ \ \$
- Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$
- Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250
- <210> 1102
- <211> 249
- <212> PRT
- <213> Homo sapiens
- <400> 1102
- Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
- Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30
- Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45
- Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
- Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65 70 75 30

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110  $\,$ 

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 . 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165  $\phantom{000}$  170  $\phantom{000}$  . 175  $\phantom{000}$ 

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1103 <211> 251 <212> PRT

<213> Homo sapiens

<400> 1103 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $35\,$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp.Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1104

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1104

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$ 

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  $100 \,\,$ 

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asp Val Val Met 130 135 140

Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly Asp Arg Val Thr 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Asp Ile Thr Asn Asp Leu Ala Trp Tyr \$165\$ \$170\$

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Ala Ser \$180\$

Thr Leu Gln Tyr Gly Val Pro Thr Arg Phe Ser Gly Ser Gly Ser Gly 195 200 205

Thr Asn Phe Ser Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala 210 215 220

Thr Tyr Phe Cys Gln Gln Ser His Ser Phe Pro Pro Thr Phe Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}$  235  $\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Thr Lys Leu Glu Ile Lys Arg

<210> 1105 <211> 249 <212> PRT

<213> Homo sapiens

<400> 1105

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85  $\phantom{\bigg|}$  90  $\phantom{\bigg|}$  95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 150 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln  $_{\rm 165}$   $_{\rm 175}$ 

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 \$200\$

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 \$215\$

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1106

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1106

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1  $\phantom{-}$  10  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  $_{\rm 50}$   $_{\rm 60}$ 

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Arg Ala Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  $\cdot$  85 90 , 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180  $\,^{\circ}$  185  $\,$  190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1107

<211> 251

<212> PRT <213> Homo sapiens

<400> 1107

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000}$  80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Ghn Ala Glu Asp 210 215 220

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1108

<211> 249 <212> PRT

<213 > Homo sapiens

<400> 1108

Ser Leu Leu Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $_{35}$  40  $_{45}$ 

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $65 \ 70 \ 75 \ 80$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly  $100 \\ 105 \\ 110$ 

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115  $\phantom{\bigg|}$  120  $\phantom{\bigg|}$  125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu  $130 \\ \rm 135 \\ \rm 140 \\ \rm C$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln  $_{\rm 165}$   $_{\rm 170}$   $_{\rm 175}$ 

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<sup>&</sup>lt;210> 1109 <211> 249

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<400> 1109 Glm Val Glm Leu Val Glu Ser Gly Gly Gly Val Val Glm Pro Gly Arg 5 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Val Asp Ser Val Lys Gly Arq Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Ala Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Lys Gly Ala 1.05 Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln 165 170 175 Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 180 185 190 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 \$230\$

Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1110 <211> 249 <212> PRT <213> Homo sapiens <400> 1110 Asp Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gin Pro Gly Arg 1 1.0 7.5 Ser Leu Arg Leu Ser Phe Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 3.0 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40. 3.5 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 5.5 50 60 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly . 100 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 135 140 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 150 155 160

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln
165 170 175

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1111 <211> 249

<212> PRT

<213> Homo sapiens

<400> 1111

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1  $$\rm 10^{\circ}$  . 15

Ser Leu Leu Thr Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp lle Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 \$105\$

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1112

<211> 247

<212> PRT <213> Homo sapiens

<400> 1112

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Thr Leu Ser Cys Glu Ala Ser Gly Phe Arg Phe Ser Asp Tyr

Pro Met His Trp Ile Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Leu 35 40 45

Ala Val Ile Ser Tyr Asn Gly Arg Asp Thr Ile Tyr Ala Asp Ser Val 50 60

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asp Phe Thr Arg Thr Leu Phe 65 70 75 80

Leu His Ile Asn Ser Leu Arg Pro Asp Asp Thr Ala Ile Tyr Tyr Cys

Ala Lys Gly Asp Tyr Asp Ile Leu Thr Gly Thr Tyr Tyr Tyr Ile Asp

100 105 110

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145  $\phantom{\bigg|}$  150  $\phantom{\bigg|}$  155  $\phantom{\bigg|}$  160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$ \$170\$

Pro Gly Gln Ala Pro Glu Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  $180\,$ 

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 \$200\$

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm}$ 

Cys Asp Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1113

<211> 249

<212> PRT <213> Homo sapiens

-400- 1117

Phe Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 . Ala Lys Asp Glv Tvr Tvr Asp Ile Leu Thr Glv Tvr Ser Tvr Tvr Glv 100 105 110 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Glv Glv 115 120 125 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 1.40 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Glv Gln Thr Val Arq Ile 145 150 155 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 185 1.80 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 230 235 240 Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1114 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1114

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr 25 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 55 60 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 . 85 , Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 1.05 110 Asp Leu Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 120 125 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 130 140 Thr Gln Pro Ala Ser Val Ser Glv Ser Pro Glv Gln Ser Ile Thr Ile 145 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 240 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1115 <211> 249 <212> PRT <213> Homo sapiens <400> 1115 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 15 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 20 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 45 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 60 50 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 . 90 Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 135 140 -130 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 - 150 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 170 175 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220 .

Tyr Tyr Cys His Ser Trp Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1116 <211> 247

<212> PRT

<213> Homo sapiens

<400> 1116

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Glý Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 50 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp 100 105 110

Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln  $_{130}$   $\,^{\circ}$   $\,^{\circ}$   $\,^{\circ}$  135

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 \$150\$

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys His Ser Trp Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 

Thr Lys Leu Thr Val Leu Gly 245

<210> 1117

<211> 249

<212> PRT <213> Homo sapiens

<400> 1117

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  $_{\rm 35}$   $_{\rm 40}$   $_{\rm 45}$ 

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}70$   $\phantom{0}75$ 

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$ 

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225  $\phantom{\bigg|}230\phantom{\bigg|}$  230  $\phantom{\bigg|}235\phantom{\bigg|}$  235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1118

<211> 249

<212> PRT <213> Homo sapiens

<220>

<221> Site

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1118

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1  $\phantom{0}$  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Xaa

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130  $$\rm 135$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 150 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln
165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 . 185 . 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1119

<211> 249 <212> PRT

<213> Homo sapiens

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

- Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
- Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60
- Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80
- Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95
- Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly  $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$
- Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly
  115 120 125
- Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130  $$135\$
- Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $$150\ ^{\circ}$$
- Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 170 175
- Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 \$180\$
- Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205
- Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 \$215\$
- Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 · 235 240
- Gly Gly Thr Lys Leu Thr Val Leu Gly

245

<210> 1120

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1120

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala His Ser Val 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130  $$\rm 135$   $\rm 140$ 

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145  $\phantom{000}$  150  $\phantom{000}$  155  $\phantom{000}$  160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Ash Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1121

<211> 251

<212> PRT <213> Homo sapiens

<400> 1121

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Ser Phe Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly \$45\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50  $$\rm 55$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp . \$100\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160 WO 02/02641 PCT/US01/19110 - - - - -

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 \$170 \$170

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp  $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm}$ 

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1122 <211> 251

<212> PRT

<213> Homo sapiens

 $<\!400>$  1122 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $^{-5}$  10  $^{15}$ 

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  $50 \,$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  $100 \hspace{1cm} 105 \hspace{1cm} 110$ 

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Glu Ala Pro Arg Gln Arg Val Thr Ile 145 150 150 155

Ser Cys Ser Gly Ser Ala Ser Asn Val Gly. Asn Asn Ala Val Asn Trp \$165\$ \$170\$

Tyr Gln Gln Leu Pro Gly Lys Pro Pro Lys Leu Leu Ile Tyr Tyr Asp \$180\$

Asp Leu Leu Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Lys Ser 195  $\phantom{-}$  200  $\phantom{-}$  205  $\phantom{-}$ 

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  $210 \ \ 215 \ \ 220$ 

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Asg Leu Asn Gly Trp Val 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  ,  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1123 <211> 249

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1123

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 . 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50  $\,$  55  $\,$  60  $\,$ 

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  $85 \ 90 \ 95$ 

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100  $$105\$ 

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 140

Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Glu Thr Ala Arg Val 145 150 150 160

Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His Trp Tyr Gln 165 170 175

Gln Gln Pro Gly Gln Ala Pro Val Val Val Ile Tyr Tyr Asp Ser Asp 180 185 190

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn 195  $\phantom{\bigg|}200\phantom{\bigg|}$ 

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp Leu Tyr Val Phe Gly 225 230 235

Thr Gly Thr Lys Val Thr Val Leu Gly

<210> 1124

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1124 Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90  $\cdot$  95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu 100  $$105\ \ ]$ 

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser 145 \$150\$

Asn Ile Gly Thr Asn Thr Val Asn Trp Tyr Gln His Leu Pro Gly Thr 165 \$170 175

Ala Pro Lys Leu Leu Ile Tyr Asn Asn Asn Arg Arg Pro Ser Gly Val \$180\$

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala 195  $200 \ \ 205$ 

Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala 210 215 220

Trp Asp Asp Ser Leu Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu 225 \$230\$

Thr Val Leu Gly

<210> 1125

<211> 253 <212> PRT <213> Homo sapiens

<400> 1125 1

Leu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Pro Val Trp Val Phe Phe Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr  $_{65}$   $\phantom{0}$  70  $\phantom{0}$  75  $\phantom{0}$  80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asg Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp 100 \$105\$

Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115  $^{\circ}$  . 120  $^{\circ}$  125  $^{\circ}$ 

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 130 . , 135 140

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 145 \$150\$

Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln \$165\$

Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val Ile Tyr Glu

Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 210  $\,$  215  $\,$  220  $\,$ 

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Ala Leu 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  $245 \ \ 250$ 

<210> 1126

<211> 251

<212> PRT <213> Homo sapiens

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Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 \$105\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly.

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145  $$150\$ 

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 \$170 \$170 \$175  $_{\rm J}$ 

Tro Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 Thr Lvs Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 230 , 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly <210> 1127 <211> 251 <212> PRT <213 > Homo sapiens <400> 1127 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1.0 Ser Val Lys Val Ser Cys Met Ser Ser Gly Gly Ser Phe Asn His Ala 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210  $\phantom{000}$  215  $\phantom{000}$  220

Glu Ser Asp Tyr Tyr Cys Met Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Val Gly 245 250

<210> 1128

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1128

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $\phantom{-}$  10  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

- Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Tyr Glu 130 135 140

Leu Thr Gln Pro Pro Ser Met Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Ser Ser Asn Thr Gly Ser Asn Thr Val Asn 165  $$170\ \ ]$ 

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Val Leu Ile His Ser 180 185 190

Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Tyr Gly Tyr 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1129

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1129
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$ 

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Gly Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  $50 \ \ 55 \ \ 60$ 

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  $_{65}$   $_{70}$   $_{70}$   $_{75}$ 

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$90\$ .  $$95\,{}_{\odot}$$ 

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala 100 \$105\$

. Phe Gly Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 \$120\$ \$125\$

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val  $_{130}$   $\,$   $\,$   $_{140}$ 

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn 165 170 175

Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn  $$^{\circ}$$  180  $$^{\circ}$$  190

Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1130

<211> 251

<212> PRT

<213> Homo sapiens

	)> 11 Met	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Сув	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30	His	Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lys	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr 70	Ala	Asp	Lys	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Leu	Ser	Ile	Val	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Lys	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Gln	Ala	Val	Leu
Thr 145	Gln	Pro	Ser	Ser	Ala 150	Ser	Gly	Thr	Pro	Gly 155	Gln	Arg	Val	Thr	Met 160
Ser	Cys	Ser	Gly	Ser 165	Ser	Ser	Asn	Ile	Gly 170	Ser	Asn	Thr	Val	Asn 175	Trp
Tyr	Gln	Gln	Leu 180	Pro	Gly	Ala	Ala	Pro 185	Lys	Leu	Leu	Ile	Tyr 190	Arg	Ser
Asp	Gln	Arg 195	Ser	Ser	Gly	Val	Pro 200	Asp	Arg	Phe	Ser	Gly 205	Ser	Lys	Ser
Gly	Thr 210	Ser	Ala	Ser	Leu	Ala 215	Ile	Ser	Gly	Leu	Gln 220	Ser	Glu	Asp	Glu
Ala 225	Asp	Tyr	Tyr	Cys	Ala 230	Ala	Trp	Asp	Asp	Ser 235	Leu	Asp	Gly	Tyr	Val 240

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1131

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1131

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1  $\phantom{-}$  15

Ser Val Lys Val Ser Cys Ser Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 75$ 

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85  $\phantom{00}90\phantom{00}$  95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe \$165\$

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 190

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro 225  $\phantom{\bigg|}$  230  $\phantom{\bigg|}$  235  $\phantom{\bigg|}$  240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1132 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1132

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 . 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 . 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  $65 \phantom{000} 70 \phantom{000} 75 \phantom{000} 80 \phantom{000}$ 

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  $100 \ 105 \ 110$ 

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140